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TWENTY-FIFTH ANNUAL REPORT

OF THE

STATE BOARD OF HEALTH,

OF THE

STATE OF RHODE ISLAND,

FOR

THE YEAR ENDING DECEMBER 31, 1902.

AND INCLUDING
THE REPORT UPON THE REGISTRATION OF

BIRTHS, MARRIAGES, AND DEATHS IN 1901.



PROVIDENCE:

E. L. FREEMAN COMPANY, STATE PRINTERS. 1910. ",

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MEMBERS

OF THE

RHODE ISLAND STATE BOARD OF HEALTH

	10st Office Address.
ALBERT G. SPRAGUE, M. D., President	RIVER POINTKENT COUNTY,
SAMUEL M. GRAY C. E	ProvidenceProvidence County.
JOHN C. BUDLONG, M. D	ProvidenceProvidence County.
REV. GEORGE L. LOCKE	Bristol County.
ALEXANDER B. BRIGGS, M. D	AshawayWashington County.
RUFUS E. DARRAH, M. D	NEWPORTNEWPORT COUNTY.
GARDNER T. SWARTS, M. D	ProvidenceProvidence County.

Post Office Address

GARDNER T. SWARTS, Secretary.

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To the Honorable the General Assembly:

In compliance with the General Laws, the Annual Report of the State Board of Health is hereby respectfully submitted.

GARDNER T. SWARTS,

Secretary.

GENERAL REPORT.

The work of the State Board of Health during the year has been a continuation of the study of the various conditions pertaining to the public health, especial use being made of the more recent methods of diagnosis and investigation which have been made available during the past few years.

CONTAGIOUS DISEASES.

From the monthly reports of communicable diseases made by the local health officers of the various towns it appears that the usual amount of scarlet fever, diphtheria, and typhoid fever has prevailed. The unusual prevalence of small-pox during the previous year was continued in epidemic form into the present year. A large number of towns were visited by this disease, an overwhelming number of cases occurring in the city of Woonsocket.

WATER SUPPLIES.

There have been no changes in the system of water supplies of the State since the issuance of the previous repost.

After many years of discussion and deliberation by numerous committees appointed by the city council of Providence, the requirement of purification of the city water supply has received attention.

Recommendations by these different committees were the advisement of an installation of a mechanical or a sand filtration process for purifying the water supply. The recommendation of the last committee was the adoption of the mechanical form of filtration,

for the reason that it was more economical in first cost and more readily under control. The system involves the use of a chemical precipitant, usually sulphate of alumina. Owing to the ungrounded fears of certain physicians in the city that the alum used might be dangerous or detrimental to the consumers, public sentiment was brought to antagonize this method. The objections were not supported by any data or facts in reference to the use of the alum as a coagulant. On the other hand the committee had obtained information from many localities where this system had been in use, but no suspicion even that the use of alum was deleterious to the public health, or that its use had been found objectionable in the production of steam in manufacturing plants, had arisen.

The fact that the alum that was used was retained upon the surface of the filter in chemical union with the organic matter present, and that it could not in that form get through the sand used for filtering, was ignored. The fact that something was added to the water, although that something was what might be found in many of the purest supplies from driven wells, was sufficient. Chemistry and scientific facts that are usually of influence in forming an opinion by professional and educated men had no standing. Prejudice was sufficient, and prevailed.

After the report of this committee the subject was allowed to rest until a new committee of the city council recommended plain sand filtration, and in July of this year a contract was made to build a slow sand filtration plant at the Pettaconsett Station, which is the intake of the Pawtuxet river water supply of the city of Providence.

The plant was to consist of six beds of one acre each, and to be located on low ground on the opposite side of the river from the pumping station, the raw water to be raised about seven feet from the ordinary level of the river, the filtered water then to be pumped to the Sockanosset reservoir for pressure and distribution to the city.

No provision was made for covering these sand beds, the com-

mittee or engineer in charge possibly depending upon the opinion of a noted sanitary engineer who reported to one of the filtration committees as follows:

"It has been suggested that covers will be necessary or desirable for filters at Providence. Covers certainly are not indispensable, as is shown by the experience of Lawrence, Poughkeepsie, and Hudson, all filtering river waters, and all with the average winter temperatures lower than at Providence. It is true that difficulty with ice has been experienced at all of these places, and that covers have been recommended at two of them. The difficulties have had the effect rather of increasing the cost of operation than of decreasing the efficiency of the filters, although there has been some decrease in efficiency. Open filters with reservoir water at Ilion, N. Y., have also been operated without difficulty.

"In the vicinity of New York City open filters are perfectly satisfactory and covers are unnecessary. Providence is probably nearer in temperature to New York City than to Lawrence and Poughkeepsie, and it is thus a fair question whether covers would be necessary for Providence."

It may have also been the judgment of the committee and its engineeer that shallow water will not freeze during the winter months in the southern part of New England. Future experience may develop the solution of this question.

The report of the city engineer states that since the placing of the contract in July some grubbing has been done, embankments built, sand being cleaned, and that it is anticipated that by the following spring the work will be well under way.

It is to be regretted that Providence has been so long in deciding to avoid the possible danger arising from the use of unfiltered Pawtuxet water, and it is to be hoped that the installation of the filter plant will be rapidly forced to completion.

The city of Pawtucket continues supervision and inspection of its water shed. The so-called filter or strainer intended to purify the water supply is still in operation at the pumping station.

The town of Bristol is still being supplied by a highly colored

water, at times saturated with chlorine owing to the influx of sea water at high tides. The water shed receives no periodical inspection, eattle and horses wade in the reservoirs, and fishing is allowed on the banks and from boats.

While pollution to the point of danger may not occur, the possibility is present. Litigation before a master has resulted in many hearings and decisions, but seemingly not to the satisfaction of either the present proprietors or to the town, which has elected to purchase the whole system, but can not agree as to a valuation.

The supplies in the Pawtuxet Valley continue to hold their good qualities; and the supply of Westerly, taken from a driven well, continues to be one of the best waters in the State.

Woonsocket, having possession of a large part of its water shed, and having certain legal authority to prevent pollution of its reservoirs and streams, is in a somewhat safer condition than most of the other supplies in the State. Its high color and vegetable taste suggest that at some future period the city will see its way clear to make the supply a more palatable one by means of filtration.

EXAMINATION OF WATER SUPPLIES.

Monthly, and in some cases bi-monthly, analyses of all the public water supplies of the State have been made, and the resulting data is proving the foundation of most valuable information for future reference and judgment. If an epidemic occurs the condition of the water for previous years compared with most recent examinations will show if the supply is below its standard and if open to suspicion. If it has not changed in character suspicion thereon may be eliminated in a measure and other sources of infection may be the sooner sought for.

In case that any of the poorer supplies should be brought under consideration for purification, a glance at the results of the repeated examinations would show at once what treatment would be required for purification, and if actual danger was present the consumers could be at once warned to use the supply only after boiling.

EXAMINATION OF SEWAGES.

The monthly examinations of the sewage matter thrown out from certain cities have been instructive, and serve as a value to those towns which are endeavoring to purify their sewage before delivering into the streams near by.

The purification has been accomplished in different ways by different cities. A means of treatment in one case might call for other treatment in another.

The chemical precipitation plant of the city of Providence is now in regular working order, and the Providence river and Narragansett Bay do not receive the heavy sewage of former years. While the percentage of purification is only about fifty, yet the difference shows a marked change in the appearance of the river water and the adjacent shores.

The process of septic tank treatment used by the city of Pawtucket in conjunction with sand filtration has shown some excellent results, the effluent or purified sewage coming from the filters quite clear and with a purification of about 90 per cent. This clear effluent is discharged into the dark and grossly polluted Moshassuck river, and serves in a small measure to dilute this noisome stream, which, with the Woonasqucket river, gives off the offensive odors found at the bridges in the center of the city of Providence.

Central Falls, utilizing the same system as Pawtucket, delivers a clear filtered sewage into a small trench which in turn delivers into the Moshassuck river.

The city of Woonsocket, also with considerable sanitary forethought, also treats its sewage. The process of filtration is by means of sand filtration only. The weak composition of the sewage does not call for preliminary sedimentation and septic action before filtering.

The clear discharge is delivered into the Blackstone river, which has already received a considerable amount of pollution from the many towns and manufactories above, as well as the partially treated Worcester sewage.

The operations of these four cities in the endeavor to avoid increasing pollution of streams is most commendable, and is a striking lesson to the careless indifference of the many manufactories which unhesitatingly deliver their crude wastes into the streams near by until they become offensive to the eye and to the sense of smell, and, while not being strictly dangerous to health by the production of specific disease, yet constitute a distinct nuisance of a character sufficiently offensive to demand correction.

EXAMINATION OF SPUTUM FROM CASES OF SUSPECTED TUBERCULOSIS.

The assistance afforded physicians in making a diagnosis of tuberculosis or pulmonary consumption in cases of boubt, and in corroborating a diagnosis already made, by an examination for tubercle bacilli in the sputum of the suspected cases has caused the board to continue its work along these lines.

This work was commenced in 1894, and has never been discontinued. It not only serves the physician, but it assists the board and the student of tuberculous disease in judging the prevalence of the disease. It is a protection to the public by teaching the patient the presence of the disease and its causation. It is a means for influencing him to care for his expectorations and to avoid infecting his relatives and the public. Often the fact of an examination of the sputum by the board, and the presence of tubercle bacilli being established, is the only influence which leads him to change his habits.

In connection with these examinations a card catalogue of the names of the patients and the results is kept. Also a card catalogue is maintained giving the deaths from tuberculosis. These two are filed together and offer a means of study of this disease which can not be obtained in any other way.

The record of deaths kept in this way is complete from 1890. It is recorded not only by name but by residence.

EXAMINATION OF CULTURES IN CASES OF SUSPECTED DIPITHERIA.

This means of determining the presence or absence of diphtheria in distinction from a tonsillitis, or sore throat, is now utilized by nearly all the physicians in practice.

Its service is daily demonstrated by giving the physician an immediate positive determination that the disease is present. He thus early in the disease is prepared to treat it intelligently. Ofttimes it is the only means of diagnosis, the accompanying symptoms not being sufficiently distinct. Learning early that the disease is present permits of an immediate report of the case to the local health department, which in turn may immediately place the case in quarantine and instruct the relatives of the patient in methods to prevent the extension of the disease to others.

Assurance of the presence of the disease warrants the physician in expending money for the specific antitoxin in diphtheria.

In cases where the patient and his family are too poor to purchase this expensive specific remedy, the State Board of Health is prepared to supply it in any quantity necessary, in any part of the State. This is made possible by the liberal appropriations made by the legislature at its various sessions, and has been in practice ever since diphtheria antitoxin has been available.

EXAMINATION OF SPECIMENS OF BLOOD IN CASES OF SUSPECTED TY-PHOID FEVER.

This work, which is accomplished by means of examining a drop of blood taken from the patients for certain bacteriological reactions, and called the Widal reaction, was commenced in 1900. Its continued and increased use by physicians has shown its value as a diagnostic point in determining the presence of typhoid fever.

The results of the examination of sputum, diphtheria cultures and blood will be found in the latter part of this report.

APPROPRIATIONS.

An annual appropriation of \$6,000 was made, at the January session of the legislature, for a continuance of the work of the board. The increase in the amount from that appropriated three years previous was made necessary in order to carry out the work of the chemical laboratory and to make it possible for the board to make certain experimental research in connection with the workings of several sewage disposal plants being operated by cities and towns.

The data acquired from the latter study are of value in determining, for other cities and towns and for manufacturing plants, the most advisable means of disposing of sewage and manufacturing wastes.

A special appropriation of \$1,000 was made by the legislature for the special use of investigation and prevention of diphtheria. A like appropriation for the examination of sputum and study of tuberculosis was also made.

PERSONNEL OF THE BOARD.

The term of membership of Dr. Rufus E. Darrah, member of the board from Newport county, expired by limitation January 31, 1902.

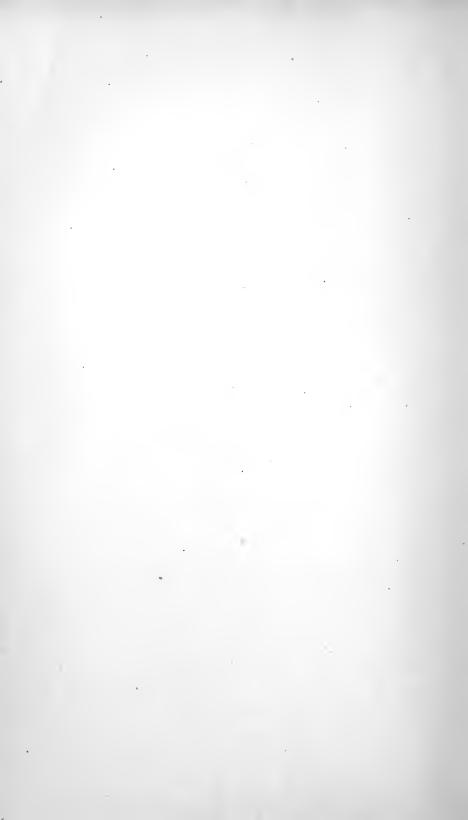
Governor Charles D. Kimball, at the January session of the General Assembly, with the advise and consent of the Senate real

eral Assembly, with the advice and consent of the Senate, re-appointed Dr. Darrah for a term of six years from January 31, 1902.

SECRETARY'S REPORT.

TOWN SANITATION.

1902.



REPORTS FROM TOWNS,

IN RELATION TO SANITARY IMPOVEMENTS, ETC.

It has been observed, in the previous issues, that a complete annual report of a State Board of Health properly includes an account of the measures taken each year by the municipal authorities, corporations, or individuals for the promotion of the health of the communities under their respective supervision or control. In order, therefore, to ascertain the facts in relation to such measures, and for the purpose of presentation in this report as in the reports heretofore issued, and in the continuance of the design to keep well informed of all proceedings throughout the State on the part of town or city councils or any form of municipal authority in the appointment of health officers or boards of health, and in the direction of improvements which have in view and seem to promise the promotion of public health by the abatement of nuisances or the removal of unsanitary conditions and surroundings, or by the introduction of water for general use, or construction of sewers, or the establishment of other public works which may not only be of great public utility and convenience but also serve in some measure, large or small, in the prevention of disease, the secretary has, as heretofore, solicited replies from the town and city clerks of the several towns and cities, or other municipal officers, in answer to questions proposed in a circular sent for that purpose.

It is designed and hoped that a connected history may thereby be secured of all sanitary improvements of a public character in all parts of the State, from year to year; and the gradual awakening of the citizens of the different towns to the necessity of sanitary public measures thereby be shown; and also whatever intelligent appreciation of such necessity, and whatever public spirit in existence in the towns there may be, may be known as manifested by the readiness with which needed sanitary measures are adopted.

The following is the form of circular sent at close of the year 1902:

CIRCULAR No. 130.

Office of Secretary of State Board of Health,

PROVIDENCE, R. I., Jan. 1, 1903.

To the Town Clerk:

It is, by statute law, made the duty of the secretary of the State Board of Health to make inquiries of town or city clerks, or of the clerks of local boards of health, in regard to the general health and sanitary condition of the towns, and also in regard to measures taken for the improvement of the same, as may be seen by the following section from the

Public Statutes, Chapter 83.

Sec. 6. The secretary of the said board shall make inquiry, from time to time, of the clerks of town and local boards of health, and practicing physicians, in relation to the prevalence of any disease, or knowledge of any known or generally believed source of disease, or causes of general ill-health, and also in relation to the proceedings of the said boards of health in respect to acts for the promotion and protection of the public health, and also in relation to diseases among domestic animals, in their several towns and localities, respectively; and the said clerks of town and local boards of health and said practicing physicians shall give such information in reply to said inquiries, of such facts and circumstances as have come to their knowledge.

In order to make complete the annual report of this board to the General Assembly, the secretary would respectfully ask your co-operation by answers to the following questions:

1. Has any work for the promotion of public health been contemplated or completed in your town by the town authorities, or by private enterprise, during the year? If any, please state what.

- 2. If by introduction or extension of water service for general use, please state what proportion of the population, by estimation, was supplied with the same at the end of the year.*
- 3. If city or town has sewage system, state the aggregate length of sewers, by estimation or otherwise, and about what proportion of the population has drainage connected with them at the end of the year.*
- 4. If by new ordinances in abatement of nuisances, or for any sanitary purpose, please send copy of same; also state how far, to your best knowledge, all the sanitary ordinances have been enforced. Copies of town ordinances especially desired.
- 5. Has your town any legal board of health beside the town council? If so, please give the names of the officers of the same.
 - 6. Please give the names of the health officers of your town.
- 7. Has gratuitous vaccination been provided in your town during the past year? What proportion of the population was vaccinated, according to your best knowledge?
- 8. Have undertakers promptly sent in their returns of death? Please give names of any who do not. (See Public Statutes, Chap. 85, Sec. 1.)
- 9. Do clergymen make returns of marriages promptly each month, as required by Public Statutes, Chap. 85, Sec. 4.

Thanking you in advance for your assistance, I am,

Yours truly,

GARDNER T. SWARTS,

Secretary.

N. B.—The town or other clerk should charge a remunerative fee for replying to the above circular, and present to the town council or board of health, it being a service required by law.

BRISTOL COUNTY.

BARRINGTON.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 3. This town has no sewage system.
- 4. No new sanitary ordinances have been enacted during the year. (See contagious disease ordinance, report of 1897, p. 10.)

^{*} If not known by the person replying, please state where or of whom such information may be obtained.

- 5. This town has no legal board of health other than the town council.
- 6. Samuel F. Bowden, health officer.
- 7. Gratuitous vaccination has been provided for school children. Practically all the school children of this town have been vaccinated.
- 8. Undertakers have promptly made returns of deaths. Any delays which occur are generally due to physicians.
 - 9. Clergymen make returns of marriages promptly.

FREDERICK P. CHURCH, Town Clerk.

BRISTOL.

- 1. Nothing especial for the promotion of the public health has been contemplated during the year.
- 2. About seven-eighths of the inhabitants of this town are supplied by the water service.
- 3. The aggregate length of sewers of this town is about eight miles and about one-eighth of the inhabitants are connected therewith. One system is still in the hands of the contractor.
- 4. No new sanitary ordinances have been adopted during the year. The present ones are very well enforced.
 - 5. This town has no legal board of health other than the town council.
 - 6. Everett Le B. Church, health officer.
 - 7. Gratuitous vaccination has been provided during the year.
- 8. In all instances undertakers have been prompt in making returns of death.
 - 9. Clergymen have promptly made returns of marriages.

HERBERT F. BENNETT, Town Clerk.

WARREN.

- 1. Nothing special for the promotion of the public health has been done during the year.
 - 3. About 150 feet of sewers have been laid during the year.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. George L. Drown, health officer.

- 7. Gratuitous vaccination has been provided during the year. About 9-40 of the inhabitants availed themselves of the same.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Most of the clergymen make returns of marriages promptly.

CHARLES B. MASON, Town Clerk.

KENT COUNTY.

COVENTRY.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. John Winsor, M. D., health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

GEORGE B. PARKER, Town Clerk.

EAST GREENWICH.

- 1. Nothing for the promotion of the public health has been done during the year.
- 2. There are about 500 water taps in town, and about 66 per cent. of the population is supplied with water.
- 3. The aggregate length of sewers of this town is 6,335 feet. This affords drainage to 125 estates, 75 per cent. of which have connections made. The population of the area drained is between 600 and 700.
- 4. No new sanitary ordinances have been enacted during the year. According to the reports made by the health officer to the town council, the present ones have been generally observed. (See health ordinances, report of 1894, p. 27; and 1900, p. 15.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Elbridge G. Carpenter, M. D., health officer.
 - 7. Gratuitous vaccination was provided during the year, but, owing to the

fact that the reports of vaccinations have not as yet been filed by the physicians, the number so vaccinated is not available.

- 8. Undertakers have promptly made returns of deaths.
- 9. Clergymen make returns of marriages promptly.

George A. Loomis, Town Clerk.

WEST GREENWICH.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. This town has no health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. As far as is known, clergymen have promptly made returns of deaths.
 - 9. As far as is known, clergymen make returns of marriages promptly.

OTHO TARBOX, Town Clerk.

WARWICK.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 4. (Contagious disease ordinances, see report of 1893, p. 45.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Albert G. Sprague, M. D., health officer.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

James T. Lockwood, Town Clerk.

NEWPORT COUNTY.

JAMESTOWN.

- 2. About two-thirds of the inhabitants of this town are supplied by the public water service.
- 3. The length of sewers in this town is about four and three quarters miles, and about two thirds of the population has drainage connected therewith.

- 4. No new sanitary ordinances, except that one to prevent foot and mouth disease among cattle, have been enacted during the year. The present laws are fairly well enforced. (Health laws, see report of 1893, p. 46; also 1894, p. 29; 1900, p. 16.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Gideon Latham, health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly

WILLIAM F. CASWELL, Town Clerk.

LITTLE COMPTON.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
- 4. No new sanitary ordinances have been enacted during the year. (Contagious disease ordinances, see report of 1898, p. 16.)
 - 5. This town has no legal board of health other than the town council.
 - 6. John G. Hathaway, M. D., health officer.
- 7. Gratuitous vaccination was provided during the year, and about one eighth of the population was so vaccinated.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

JOHN B. TAYLOR, Town Clerk.

MIDDLETOWN.

- 1. There was no special undertaking, looking to the promotion of the public health, during the year. Ordinary precautions to remove sources of disease and prevent the spread thereof were taken.
- 2. During the year there was no material increase in the number of persons taking water from the mains of the Newport Water Co.
 - 3. No sewage system has ever been established in this town.
 - 4. (Contagious disease ordinances, see report of 1893, p. 48.)

AN ORDINANCE IN RELATION TO THE DRIVING OR TRANSPORTING OF NEAT CAT-TLE AND OTHER ANIMALS INTO THE TOWN OF MIDDLETOWN.

(Passed December 2, 1902.)

It is Ordained by the Town Council of the Town of Middletown as follows, to wit:

- Section 1. No person or company shall hereafter within sixty days from the first day of December, 1902, drive or transport into the town of Middletown any neat cattle, swine, sheep, or other ruminant animal which was brought to or placed on the Island of Rhode Island since the first day of November last past 1902, or which may be brought to or placed on said Island at any time subsequent to the passage of this ordinance, nor any of the before described animals which were brought or placed on said Island at any time previous to said first day of November, 1902, which are infected or suspected of being infected with any contagious or infectious disease, without permission first had and obtained of the cattle commission hereinafter created and provided for.
- SEC. 2. Any person or company violating the provisions of the first section of this ordinance shall be fined twenty dollars for every such violation, to be recovered by complaint and warrant, before any court of competent jurisdiction, to the use of said town.
- Sec. 3. It shall be the duty of the aforesaid cattle commission, at the proper expense of said town, to complain of and prosecute to final judgment all violations of this ordinance.
- Sec. 4. Harvey F. Copeland, Clark Henry Congdon, and William L. Coggeshall are hereby appointed and constituted a cattle commission to receive and consider all applications for bringing and transporting into this town any neat cattle, swine, sheep, or other ruminant animal; to employ at the proper expense of this town, any veterinary physician or qualified person, to examine and determine whether any of the before-mentioned animals are infected, or liable to be infected, with any infectious or contagious disease, and to grant permission, if deemed safe and proper, for their admission into the limits of this town. Said commission is hereby authorized and directed, to co-operate with and act in conjunction with the State Board of Agriculture, its officers and agents, in any measures taken by said board for the suppression and eradication of any diseases which may originate and attack any domestic animals within the limits of this town.
 - SEC. 5. This ordinance shall take effect from and after December 4, 1902.
 - 5. The town council constitutes the only board of health in this town.

- 6. George E. Ward, health officer.
- 7. Gratuitous vaccination was not provided during the year.
- 8. For the most part, undertakers have promptly made returns of deaths.
- 9. Clergymen make returns of marriages promptly.

ALBERT L. CHASE, Town Clerk.

NEWPORT.

- 1. Nothing for the promotion of the public health has been done during the year.
- 3. There are about 65 miles of sewers in this city, and about 70 per cent. of the population is connected with the same.
 - 4. All sanitary ordinances are very well enforced.
- 5. A board of health for this city was created this year by the General Assembly.
- 6. The members of aforesaid board are as follows: Rufus E. Darrah, M. D., president; Samuel P. Cottrell, M. D., sccretary; Christopher F. Barker, M. D., Robert Frame and Charles E. Lawton. The health officers are Joseph W. Sampson, executive officer; Robert L. Oman, sanitary inspector; George C. Shaw, assistant inspector; and Cornelius C. Moore, clerk.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

DAVID STEVENS, City Clerk.

NEW SHOREHAM.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 6. Hamilton A. Mott, health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. As far as is known, undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

EDWARD P. CHAMPLIN, Town Clerk.

PORTSMOUTH.

No reply from the town clerk.

TIVERTON.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system,
- 4. No new sanitary ordinances have been enacted during the year. (Contagious disease ordinances, see report of 1900, p. 19.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Edward P. Stimson, M. D., health officer.
- 7. Gratuitous vaccination was provided during the year, but, owing to the fact that about everybody in town was vaccinated three or four years ago, few availed themselves of it.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

A. LINCOLN HAMBLY, Town Clerk.

PROVIDENCE COUNTY.

BURRILLVILLE.

- 1. Sharp watch has been kept by the town council and health officers over drains, cess-pools, and other menaces to public health.
- 2. The Pascoag Water Company commenced work of construction of a system of public water works for the compact section of the town on December 18th of this year, but little progress has been made as yet.
 - 3. This town has no sewage system.
- 4. No new sanitary ordinances have been enacted during the year, but to the best of my knowledge the present ones are satisfactorily enforced. (Contagious disease ordinances, see report of 1897, p. 20.)
 - 5. This town has no legal board of health other than the town council.
 - 6. John W. Clavin, health officer.
- 7. Gratuitous vaccination was not provided during the year, as most of the people were so vaccinated during the previous year.

- 8. Undertakers have been fairly prompt in making returns of deaths.
- 9. Clergyman make returns of marriages promptly.

EDGAR A. MATHEWSON, Town Clerk.

CENTRAL FALLS.

- 1. Nothing for the promotion of the public health has been done during the year.
- 2. About 92 per cent, of the inhabitants of this city are supplied by the public water service of this city.
- 3. There are 10.011 miles of sewers in this city. This affords drainage to about 48 per cent, of the inhabitants.

SEWAGE FILTER BEDS.

Considerable work was done toward constructing additional sand filter beds. 24,240 cubic yards of sand were exeavated and filled in the swamp and all the necessary pipe purchased. Owing to the settlement of sand it will require additional filling early in the coming year. The sand filling, with an average haul of 400 feet, was done for about 14 cents per cubic yard. It will require considerable more filling, and the laying of 2,000 feet of tile underdrains and 1,000 feet of pipe carriers, to complete the work. The sewage was also connected from Lonsdale avenue with the tanks, by a pipe line laid through the hillside a distance of about 1,000 feet.

During the year 40 permits were issued and 41 houses were connected with sewers in the western district, making the total number of connections 257, which drains 284 houses.

Number of persons benefited this year	425
Number of persons benefited January 1, 1902	2,726
Total number of persons benefited Nov. 30, 1902.	3.151

The total amount of sewage treated during the year was 14,670,800 gallons against 14,898,508 gallons for 1901. Monthly comparisons between the years 1900 and 1902 are given below:

Date.	Number	of Gallons.	Dat	e. Number of Gallons.
December	1899	909,942.	December	19011,262,700.
January	1900	800,000.	January	19021,091,000.
February	1900	523,318.	February	19021,029,600.

Date.	Number of Gallons.	Date.	Number of Gallons.
March	1900 993,424.	March	19021,213,000.
April	1900 850,435.	April	19021,253,300.
May	1900 884,890.	May	19021,324,500.
June	1900 818,650.	June	19021,228,500.
July	19001,048,360.	July	19021,260,600.
August	1900 975,154.	August	19021,412,000.
September	19001,067,200.	September	19021,129,000.
October	19001,044,000.	October	19021,216,700.
November	19001,044,000.	${\bf November}$	19021,249,900.

10,959.373.

14,670,800.

The relation between the monthly average temperatures of the air, the average temperature of the sewage, the maximum and minimum temperature of the air in degrees Fahrenheit, are given below:

Month.		Max. Air.	Min. Air.	Av. Air.	Av. Sewage.
December	1901	60°	11°	31°	46°
January	1902	52°	8°	28°	46°
February	1902	43°	12°	28°	44°
March	1902	65°	19°	41°	51°
April	1902	74°	33°	47°	56°
May	1902	90°	36°	58°	55°
June	1902	91°	46°	64°	61°
July	1902	91°	51°	68°	65°
August	1902	88°	50°	67°	64°
September	1902	87°	45°	62°	64°
October	1902	73°	28°	54°	61°
November	1902	70°	26°	46°	57°

Although the total sewage flow this year did not show an increase over last year, the sewage was stronger this year and was probably not so much diluted with rain water, because with slow, drizzling rains, more or less water flows into the tanks before the automatic regulating apparatus shuts off the storm flow, and this year the storms have had heavy rainfalls; however, the analyses show the sewage stronger this year than last.

During the summer months the effluent from the beds is excellent, but in the colder weather the degree of purification is greatly reduced. Daily measurements taken to obtain the flowage of the stream running from the swamp, into which the effluent flows, show that the effluent is diluted with about nine times

its quantity of pure water, and at no time during the year have the analyses of the stream shown pollution.

Semi-monthly analyses of the sewage and effluent, and monthly analyses of the outlet stream have been made by Mr. Ernest F. Badger, Chemist of the State Board of Health. Monthly analyses of the stream are given in Appendix A. Analyses of the sewage, septic and effluent showing the comparative results obtained in both cold and hot weather are shown in Appendix B. The percentage of purification effected by the septic tank and sand filter is shown in Appendix C.

I wish to extend my thanks to Mr. Badger for his courtesy and aid, as well as suggestions for the successful operation of the plant.

A table showing the length of each size sewer at the present time in each street and also tables showing the total length of sewers in both the eastern and western sewage districts can be found in Appendices D and E, respectively.

WM. FAITOUTE KEENE,

City Engineer.

- 5. This city has no legal board of health other than the board of aldermen.
- 6. Charles F. Sweet, M. D., health officer.
- 8. Undertakers have promptly made returns of deaths.
- 9. Clergymen make returns of marriages promptly.

C. FRED CRAWFORD, City Clerk.

APPENDIX A.

MOSHASSUCK RIVER DRAINAGE DISTRICT, CENTRAL FALLS, R. I. ANALYSES OF OUTLET STREAM FROM FILTER BEDS.

(Parts per 100,000.)

	(and same)		(:000:)								
	RE	RESIDUE ON	z		AMMONIA.	NIA.			Nitro	Nitrogen as	
	Eva	Еуароватюм.	N.		AL	ALBUMINOID.	Ď.		ŀ		.bə
DATE.	Total.	noitingl no seod	Exed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	Nitrates.	Zitrites.	Oxygen Consum
January 2, 1902	22.6	4.0	18.6	0.280	.0160	.0140	.0030	3.74	68.0	0010.	0.28
February 25, 1902	31.1	7.4	23.7	1.400	0920.	.0580	.0180	6.00	1.05	0010	0.98
March 13, 1902.	26.1	6.7	19.4	0.280	.0200	.0180	.0030	3,58	0.67	.0200	0.56
April 9, 1902	23.9	9.9	17.8	0.320	.0260	.0220	00-10	3.58	0.68	.0040	0.40
May 5, 1902	33.1	6.6	23.2	0.060	.0180	.0180	0000	4.18	0.93	.0050	0.24
June 4, 1902	27.5	8.9	20.7	0.420	.0200	.0220	01.00	4.22	0.76	0800	0.42
July 3, 1902	20.5	10.1	19.1	0.350	.0160	.0120	.0040	4.42	1.03	.0010	0.30
August 6, 1902	30.4	7.3	23.1	0.510	.0380	.0280	.0100	5.03	2.18	.0240	0.52
August 27, 1902.	28.0	6.4	21.6	0.400	.0360	.0280	0800.	SO. 7	08.0	0200	0.53
September 9, 1902	30.3	4.0	23.9	0.510	.0280	.0240	.0040	5.85	98.0	.0160	0.58
October 6, 1902	25.4	4.2	21.2	0.250	.0520	.0340	.0180	3.20	0.36	.0150	1.00
November 7, 1902.	27.9	8.4	19.5	0.250	.0240	.0200	.0040	4.83	96.0	.0100	0.35

APPENDIX B.

MOSHASSUCK VALLEY DRAINAGE DISTRICT, CENTRAL FALLS. R. I.

ANALYSES OF SEWAGE, SEPTIC SEWAGE AND EFFICIENT.

(Parts per 100,000.)

						Амм	AMMONIA.	•		Nitrogen as	gen as		
						AL	ALBUMINOID.	р.					
DATE.		Тето Т	.noitule2 a1	In Suspension.	F1:ee.	Total	.noindos al	In Suspension.	Chlorine.	Nitrates.	Zitrites.	Oxygen Consumed.	Remarks,
Dec., 1901, to June, 1902	1902	158.5	109.3	49.2	11.00	2 62	1.66	96.0	16.50	:	:	22.38	22.38 Av. 11 Samples Sewage.
:	:	106.5	90.0	16.5	11.85	1.24	0.99	0.25	22.12	:	:	12.19	12.19 Av. 11 Samples Septic.
**	:	14.9	51	52.2	6.85	.3905	.3323	.0582	20.24	0.51	.0520	5.32	5.32 Av. 13 Samples Effluent Nos. 1, 2, 3.
:	:	2.60	20.0	49.7	7.11	.4118	3658	.0460	17.53	0.28	0140	5.00	5.00 Av. 11 Samples Effluent Nos. 4, 5.
:	:	69.2	17.1	52.1	92.9	.3796	.3306	0.0490	19.34	0.62	.0587	4.00	4.00 Av. 10 Samples Effluent Nos. 6, 7.
June, 1902, to Dec., 1902	1902	101.7	75.5	29.5	16.04	1.65	1.02	0.63	17.96	ia E	:	10.83	10.83 Av. 10 Samples Sewage.
		117.5	94.5	23.0	12.42	0.81	.56	.25	28.72	:	:	2.	8 71 Av. 10 Samples Septic.
**	:	0.67	15.4	63.6	3.96	0280	0620.	0800	19.85	3.38	.0560	1.12	1.12 Av. 5 Samples Effluent Nos. 1, 2, 3.
:	:	21.0	12.0	62_0	5.36	.1070	.1025	.0045	25.80	0.93	.0220		1.46 Av. 4 Samples Eillnent Nos. 4, 5.
:	*	89.5	23	65.7	3 10	X070	8690	9700	20 00	9	0.00	20 0	5 0. N very los legities of av 150 of 20

APPENDIX C.

PURIFICATION EFFECTED BY SEPTIC TANK AND SAND FILTERS.

(Parts per 100,000.)

	Free	FREE AMMONIA.	LA.	ALI	Albuminoid Ammonia.		OXYGE	OXYGEN CONSUMED.	MED.			
	Бемаке.	Ещиевъс.	P. C. Removed.	Бетаке.	EtHuent.	P. C. Removed.	Беизде.	.тдапдаг.	P. C. Removed.	Æ I	Remarks.	ri .
Cold weather Dec. 1, 1901, to June 1, 1902.					-							
Purification effected by Septic Tank	14.00	11.85	15.3	2.62	1.24	53.0	22.38	12.19	45.5	45.5 Average 11 Analyses.	11 A	nalyses.
	14.00	6.85	51.1	2.65	.3905	85.1	22.38	5.32	76.2	:	13	:
	14.00	7.77	44.5	2.62	.4118	84.3	22.38	5.00	77.77	;	11	:
	14,00	6.76	51.7	2.62	.3796	85 5	22.38	4.00	82.1	:	10	:
Warm weather June 1 to Dec. 1, 1902.				•		-						
Purification effected by Septic Tank	16.04	12.42	22.5	1.65	.81	50.9	10.83	8.71	19.6	;	10	:
	16.04	3.96	75.3	1.65	780.	94.7	10.83	1.12	89.7	:	ro	;
	16.04	5.36	9.99	1.65	107	93.5	10.83	1.46	86.5	:	4	:
	16.04	3.19	0.08	1.65	.0708	95.7	10.83	0.97	91.0	:	10	;

CRANSTON.

- I. Nothing for the promotion of the public health has been done during the year.
 - 2. The water supply of this town is the same as that of the city of Providence.
 - 3. This town has no sewage system.
 - 6. D. S. Latham, M. D., and John Bigbee, health officers.
- 7. Gratuitous vaccination was provided during the year, but the number vaccinated is not known.
 - 8. With a few exceptions, undertakers make return of deaths with promptness.
 - 9. Clergymen make returns of marriages promptly.

DANIEL D. WATERMAN, Town Clerk.

CUMBERLAND.

No reply from the town clerk.

EAST PROVIDENCE.

- 1. Except the erection of a small-pox hospital in the southern part of the town, nothing for the promotion of the public health has been done during the year.
- 2. There has been no extension of the water service of this town, outside of a few new services for private use.
 - 3. There has been no extension of the sewers in this town.
- 4. No new sanitary ordinances have been enacted during the year. (Contagious disease ordinances, see report of 1893, p. 54.)
 - 5. This town has no legal board of health other than the town council.
 - 6. James H. Williams, health officer.
- 7. Three hundred and seventy-two persons were gratuitously vaccinated during the year.
- 8. Undertakers generally send in their returns of deaths promptly, for, in cases where they do not, their attention has been called to the law, resulting in prompt returns in the future.
 - 9. Clergymen make returns of marriages promptly.

WILLIAM E. SMYTH. Town Clerk.

FOSTER.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. Henry Arnold, M. D., health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

GARDNER HOWARD, Town Clerk.

GLOCESTER.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
 - 4. No new ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. George A. Harris, M. D., health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers have promptly made returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

FRANK F. DAVIS, Town Clerk.

JOHNSTON.

- 4. (Contagious disease ordinances, see report of 1896, p. 20.)
- 5. Ralph H. Shaw, M. D., Hiram Kimball, and William H. Mathewson constitute the board of health of this town.
 - 6. Ralph H. Shaw, M. D., health officer.
- 7. One hundred and thirty-seven persons were gratuitously vaccinated during the year.

- 8. Undertakers have promptly made returns of deaths.
- Clergymen make returns of marriages promptly.

STERRY K. LUTHER, Town Clerk.

LINCOLN.

- 1. Nothing for the promotion of the public health has been done during the year.
- 2. A slight extension of the public water service of this town, which extension supplies probably one per cent. of the total population of the town, was made during the year.
- 3. The length of sewers in this town is a little over a mile, and about 15 to 20 per cent. of the population has drainage connected therewith.
- 4. No new sanitary ordinances have been enacted during the year. The present ones are very well enforced. (Contagious diseases ordinances, see report of 1896, p. 25.)
 - 5. This town has no legal board of health other than the town council.
 - 6. James W. Walker, M. D., health officer.
- 7. Gratuitous vaccination was provided during the year, and about 4.500 persons, or nearly half the population of this town, were so vaccinated.
- 8. Undertakers are not very prompt in making returns of deaths, although an improvement in that line is taking place.
 - 9. Clergymen are not very prompt in making returns of marriages.

JOHN JOHNSTON, Town Clerk.

NORTH PROVIDENCE.

- 1. Nothing for the promotion of the public health has been done during the year.
- 2. There has been no extension of the public water service of this town during the year.
 - 3. This town has no sewage system.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. Michael J. Kirby, health officer.
 - 7. Gratuitous vaccination was not provided during the year.

- 8. Undertakers have promptly made returns of deaths.
- 9. There are no clergymen in this town.

THOMAS H. ANGELL, Town Clerk.

NORTH SMITHFIELD.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. John S. Hilton, health officer.
- 7. Gratuitous vaccination was provided during the year, and I should say that about one-sixth of the population availed itself of the same.
- 8. Undertakers have been fairly prompt in making returns of deaths during the year.
 - 9. Clergymen make returns of marriages promptly.

Charles S. Seagrave. Town Clerk.

PAWTUCKET.

The following extracts are taken from the report of the Board of Public Works:

Summary of pumping at nos. 1, 2, and 3 stations for the year ending september 30, 1902.

Total expenses for the year	\$22,306.68
Total number of gallons pumped into reservoir	2,403,299.941
Total cost of raising 1,000,000 gallons into reservoir	\$9.24
Total cost of raising 1,000,000 gallons one foot high	.034
Average daily consumption of water in U. S. gallons	6,584,383
Maximum daily consumption of water in U. S. gallons	9,790,558
Minimum daily consumption of water in U. S. gallons	3,475,399

Resepctfully submitted,

JOHN H. WALKER,

Chief Engineer.

Table Showing Amount of Rain and Melted Snow in Inches, for the Year Ending September 30th, 1902.

DAYS OF MONTH.	Остовев.	Моувмиев.	Десемвек.	JANUARY.	FEBRUARY.	Манси.	APRIL.	May.	JUNE.	Jury.	Augren.	SEPTEMBER.	DAYS OF MONTH.
1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 31	0.720 0.08 2.13	* * * 0.41	* 0.84 0.18 1.58	‡0.07 ‡0.08 ‡0.40	‡0.72 * *	0.50 †1.43 1.02 0.10	* 1.12 . *	0.20 0.04 *	* 1.00 * 0.02 0.20 0.02 * 0.93 0.24	0.08 0.24 0.04 0.04 0.13 0.10	* 0.28 0.63 0.72	0.04 0.62 1.00 0.39	1 2 3 4 4 5 6 7 8 9 101 1 1 2 3 1 4 4 1 5 6 6 7 8 9 101 1 2 2 2 2 2 4 4 2 2 6 6 2 7 2 8 9 3 3 1
118 19 20 21 22 23 24 25 26 27 28 29 30 31	* *	1.87	0.69 0.03 \$0.88 2.75	0.04 0.84 0.59	‡1.75 ‡1.36 * 3.67	0.09 * 0.03 1.59 0.01	* 0.10	0.24 0.08 0.50 0.02	0.22 0.28 0.78 0.05 0.58	2.87 * 0.25	0.50 0.04 0.11	0.34	18 19 20 21 22 23 24 25 26 27 28 30 31

Total rain and melted snow, 44.51,

Depth of snow in inches, 12.5.

FILTER FIELDS.

The filter fields have continued during the year to receive and treat the sewage of the Moshassuck River district which now contains 13.276 miles of sewers and serves a population of about 5,400 persons actually connected or about 7,300 persons on the line of the sewers constructed. The average amount of sewage treated daily has increased from 114,345 gallons to 132,961 gallons.

Attention was called in the report of last year to the gradual increase in both the quantity and strength of the sewage received at this plant and to the fact that additional beds would be needed in the immediate future. Plans have

^{*} Too small to measure.

[†] Snow

^{\$} Snow and rain.

been drawn for the enlargement of the plant and during the year an appropriation of \$6,500.00 was obtained to extend the area of the beds.

The work of enlargement was not started until September, and comparatively little had been accomplished at the close of the fiscal year. September 30, 1902. Before winter sets in, however, it is hoped that some of the additional area will be ready for service and that the beds may not be taxed as heavily as they were during the last winter season.

Detailed information respecting the work performed by these beds is shown below:

Table Showing Amount of Sewage Let On and Amount of Sand Removed from Each Bed from December 1, 1894, to October 1, 1902.

Number of Bed.	Cubic yards of poor sand removed.	Cubic yards of sludge removed.	Average depth in inches of poor sand removed.	Total number of gallons of sewage let on.	Cubic yards of poor sand removed for each 1,000,000 gal- lons of sewage.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	110 125 114 106 180 183 132 121 124 151 128 134 143	136.04 131.17 121.89 115.62 45.23	6 1-2 7 6 1-3 6 5-8 4 3-8 6 1-2 5 1-2 5 5-7 5 3-8 6 1-3 4 3-5 5	7,818,937 8,009,095 7,521,402 6,850,422 31,159,671 19,838,819 21,162,760 19,039,892 21,383,716 21,553,235 22,481,900 24,082,682 23,557,212 1,706,876 1,728,992	14.07 15.61 15.16 15.47 5.77 9.22 6.29 6.35 5.80 7.01 5.70 5.56 6.07

THE FOLLOWING TABLE SHOWS THE NUMBER OF GALLONS OF SEWAGE RECEIVED AND TREATED AT THE PLANT DURING THE YEAR.

Month.	Gallons of Sewage.	Average Gallons Per Day.
October, 1901 November, 1901 December, 1901 January, 1902 February, 1902 March, 1902 March, 1902 May, 1902 June, 1902 June, 1902 July, 1902 August, 1902 September, 1902	3,729,386 4,001,819 4,667,337 4,772,783 4,282,101 1,744,892 2,819,049 5,301,168 4,339,135 4,523,270 4,394,760 3,955,040 48,530,740	120,305 133,394 150,555 153,961 56,287 93,968 171,007 144,638 145,912 141,766 131,835

Average number of gallons per day has been 132,961.

Number of Bed.	Area in acres.	Number of doses of ordinary sewage.	Average quantity of ordinary sewage applied at each dose in gallons.	Number of doses of heavy sewage.	Average quantity of heavy sewage applied at each dose in gallons.	Total quantity of sewage applied to beds during the year in gullons.	Equivalent average daily quantity upplies acre in gallons,
1	.126	80.5	12,600	44.	10,080	1,457,820	31,698
2	. 132	76.	13,200	44.4	10,560	1,472,064	30,553
3	. 133	101.	13,300	43.6	10,640	1,807,204	37,226
4	. 123	105.	12,300	36.5	9,840	1,650,660	36,764
5	. 307	246.	30,700			7,552,200	67,397
6	. 211	183.75	21,100	36.	16.880	4,484,905	58,232
7	. 180	243.25	18,000			4,378,500	66,644
8	. 157	205.	15,700			3,218,500	56,165
9	. 176	219.2	17,600			3,857,920	60,057
0	.178	203.	17,800			3,613,400	55,618
1	.183	228.25	18,300			1,176,975	62,536
2	. 219	239.	21,900	,		5,234,100	65,479
3	. 218	227.	21,800			4,948,600	62,193
4	. 0054	165.	2,150			354,806	1326,852
5	. 0054	165.	1,958			323,086	1297.592

^{*} Figured on the basis of 365 days in the year.

[†] Bed discontinued April 18, 1902.

On December 1, 1894, beds numbered 1, 2, 5, 6, and 7 were started, and one month later the use of beds 8, 9, 10, and 11 was begun.

August 1, 1895, beds 3 and 4 were put in service, and November 1, 1895, beds 12 and 13. In 1898 additional area was found necessary for sludge beds, and in August of that year bed 6 was used for this purpose some of the time.

Experimental beds 14 and 15 were started March 8, 1900, and beds 16 and 17 October 3, 1900. Beds 14, 15, 16, and 17 were all contact beds, the first two receiving septic effluent from the tank and the last two the effluent from the beds 14 and 15.

During the time the tanks have been run as settling tanks merely, from Dec. 1, 1894, to Jan. 13, 1900, from Aug. 7, to Nov. 12, 1901, and from May 9, 1902, to Oct. 1, 1902, a period of five years and nine months, the average amount of sludge raked from the surface of the sludge beds has equalled 3.4 cu. yds. per million gallons of sewage passed through the tanks.

This 3.4 cu. yds. is considered compact sludge, for the amount wheeled from the beds is reduced one-third to allow for the shrinkage that would occur if it were compacted instead of being raked up loose and cast into wheelbarrows. This compact sludge has been found to weigh about 1,180 pounds per cubic yard.

The average amount of poor sand removed from the surface of the beds has been 695 cubic yards per acre. This is equivalent to a depth of $5\frac{1}{8}$ inches.

During the winter months, or from November 12, 1901, to May 9, 1902, sewage was allowed to flow continuously through tank "A," which acted as a septic tank and received during that period 19,396,000 gallons of sewage.

The average amount of solid matter contained in the raw sewage, as indicated by the "total residue on evaporation," was 4.526 cu. yds. per million gallons, and the average amount contained in the effluent from the septic tank was 3.045 cu. yds. per million gallons. This would indicate that there was left in the tank 1.481 cu. yds. per million gallons, or a total of 28.725 cu. yds., by the sewage which flowed through the tank during the time of the experiment.

When the tank was drawn down there was found to be left 100.2 cu. yds. of 85.85% moisture. This equals 14.178 cu. yds. of solid dry matter or 0.731 cu. yds. for every million gallons of sewage that passed through the tank.

This cannot, however, be considered all the solid matter that was found in the tank, for the liquid content that was drawn off contained much matter in suspension, as was evidenced by the sludge that was raked from the sand beds upon which this liquid was discharged.

No reliable estimate can be made of the amount of this solid matter as no analyses were made of the liquid drawn from the top or middle portion of the tank.

The important work performed by the septic tank during this period was the keeping of the sludge beds free from an accumulation of solid matter which would have interfered with the proper working of those beds. On the first of May this solid matter was taken from the tank and buried.

About the middle of December experimental bed No. 16, which is a can twenty inches in diameter and six feet deep filled with coke, was emptied of its contents and filled with five feet of sand similar to that of which the beds are composed. This can was then designated as bed No. 18 and the effluent from contact bed No. 15 was turned upon it at the rate of one million gallons per acre per day.

When the use of the septic tank was discontinued in May, beds 14—15—17 and 18 were also discontinued.

The following tables indicate the efficiency of the several steps in the purification of sewage at the filter fields:

AVERAGES OF CHEMICAL EXAMINATIONS MADE BY THE STATE BOARD OF HEALTH FROM OCTOBER 1, 1901 TO OCTOBER 1, 1902.

(Parts per 100,000.)

	.bed.	Oxygen Consum	14.03	68.6	1.73	3.39	3.17	1.33	1.96	1.15	12.63	1.00
Nitrogen		Nitrites.	:	:	.0465	.0353	.0589	.0030	.0207	.0250	:	.0411
NITR	Nitrates.		:	:	1.88	1.12	92.	2.07	1.79	1.10	:	2.71
		Сріотіпе.	8.01	7.62	6.38	7 26	5.85	6.28	80.9	5.72	12.66	9.61
	ID.	In Suspension.	.71	. 20	.0103	9060.	.0571	.0153	.0275	.0082	99.	.0260
ONIA.	ALBUMINOID	In Solution.	.70	.56	.1003	.1827	.1989	2960	.1192	0690	69.	.0524
AMMONIA.	AL	Total.	1.41	92.	.1106	. 2733	.2560	.1120	.1467	.0772	1.35	.0784
		F1ee.	8.07	6.21	2.99	2.35	1.99	.83	.80	1.63	8.43 1.35	1.65
Evap-		In Suspension.	36.3	12.3	B 22.7	:	2.9	:	:	:	40.6	47.7 A 15.8 B 31.9
RESIDUE ON EVAPORATION.		In Solution.	55.1	49.2	36.6 A 13.9 B 22.7	:	29.8	:	:	:	9.69	A 15.8
RESID		Total.	91.4	61.5	36.6	:	32.7	:	:	:	110.2	47.7
			Sewage, average of 12 analyses (Nov. 1, 1901, to May 14 1902)	Effluent from Septic Tank, average of 12 analyses (Nov. 1, 1901, to May 14, 1902).	Tank and Sand Filters, average 12 analyse May 14 1902)	Effluent from Septic Tank and Contact Filter No. 14, average 3 analyses (Nov. 1, 1901, to May 14, 1902)	Jank and Contact Filter No 15, average 1901, to May 14, 1902).		analyses (Nov. 1, 1901, to May 14, 1902)	Effluent from Septic Tank and Contact Filter No. 18, average 8 analyses (Nov 1, 1901, to May 14, 1902)	Sewage, average of 14 analyses (Uct. 1, 1901, to Nov. 1, 1901, and May 14, 1902, to Oct. 1, 1902)	Effluent from Sand Filters, average 14 analyses (Oct. 1, 1901, to Nov. 1, 1901, and May 14, 1902, to Oct. 1, 1902)

A—Loss on ignition.
B—Fixed.

PURIFICATION EFFECTED BY SEPTIC TANK AND SEVERAL FILTERS.

(Parts per 100,000.)

	Риел	Free Ammonia.	NIA.	AL AL	АЕВОМІКОІВ АММОКІА.	a	Охубе	OXYGEN CONSUMED,	DMED.
	Бежаде.	Effluent.	Per cent. Re- moved.	Sewage.	ЕЩпеис.	Per cent. Re- moved.	Зенаде.	Ещиент.	Per cent. Re- moved.
Purification effected by Septic Tank and Sand Filters Purification effected by Septic Tank and Sand Filter No. 14. Purification effected by Septic Tank and Filter No. 15. Purification effected by Septic Tank and Filter No. 15-16. Purification effected by Septic Tank and Filter No. 15-17. Purification effected by Septic Tank and Filter No. 15-17.	XXXXXXX 0000000	2988888 288888	23 70 70 70 70 80 80 80 80 80 80 80 80 80 80 80 80 80	777777	76 1106 2733 2560 1120 1467 0772	9828898 882889 885889	2412111 2222222 2222222	91.83.13 1.96.37.13 1.96.37.13	9871-17879 18.05-11-986 18.05-11-986

PURIFICATION EFFECTED BY SEDIMENTATION TANKS AND SAND FILTERS.

(Parts per 100,000.)

YGEN CONSUMED.	ЭпэнЦІЗ	1.35 0784 94.2 12.63 1.00 92.1
0.00	Бетаке.	12.0
HNOID ONIA.	Per cent, Re-	84 94.
Агвемімон Аммомім.	Effluent.	35 07
.	жоуед. Бемаде,	4.
\MMON1.	Effluent.	.65 80
FREE AMA	Zen. 2 Ke.	.43
		Purification effected by Sedimentation Tanks and Sand Filters.

The records from our several rainfall gauges have been collected and the following table shows the total monthly precipitation recorded by the different ones.

TOTAL AMOUNT OF PRECIPITATION FOR EACH MONTH.

				-	
Month.	Masonic Building, Standard gauge.	Masonic Building, Automatic gauge.	Pumping Station No. 3, Standard gauge.	Filter Field, Standard gauge.	Diamond Hill, Standard gauge.
1901.					
October	2.872	2.746	3.13	2.86	3,3625
November	2.052	1.885	2.29	2.4825	2.7725
December	8.785	7.518	8.42	9.0675	9.1075
1902.					
January	1.703	1.372	2.02	2.2325	1.975
February	5.636	4.701	6.09	8.52	8.39
March	5.185	4.483	5.93	6.50	5.97
April	3.233	2.847	3.02	3.04	3.005
May	1.148	1.123	1.08	1,1325	1.895
June	4.909	4.657	4.75	4.9184	3.7275
July	3.949	3.679	3.935	3.2875	4.44
August	2.457	2.404	2.28	2,1125	1.7975
September	3.928	3.477	3.87	4.66	4.30
Total precipitation for year	45.857	40.892	46.815	50.8134	50.7425

ELEVATIONS ABOVE MEAN HIGH TIDE, PAWTUCKET RIVER.

Gauge at Masonic Building, standard	130 feet
Gauge at Masonic Building, automatic	140 feet
Gauge at Pumping Station No. 3	
Gauge at Filter Fields	
Gauge at Diamond Hill	220 feet

The automatic gauge maintained by this department enables us to obtain figures relative to rates of rainfall which are desirable aids in sewer computations.

Such records have not been generally kept in the past, but more attention is now being paid by engineers to this important subject.

GEO. A. CARPENTER,

City Engineer.

PROVIDENCE.

Extracts from report of city engineer and Board of Public Works:

The population of the city is estimated at 185,000, and the population supplied in the suburbs is estimated at 13,400. Total population supplied 198,400.

The number of meters in use in the city is 17,732, and the number of meters in use in the suburbs is 1,484. Total number of meters in use, 19,216.

The number of service pipes in use in the city is 20.947, and the number of service pipes in use in the suburbs is 1,811. Total number of service pipes in use, 22,758.

The average daily use of water per service for the year 1902 has been 508 gallons.

. The average daily use of water per capita for the year 1902 has been 58 gallons. The water receipts for 1902 were \$605,307.35.

The net cost of maintenance for 1902 was \$134,104.04.

The net cost of the water works construction from November 8, 1869, to January 1, 1903, is \$6,496,966.27, upon which there has been a revenue for water sold of \$10,617,340.39.

Montus.	Consumption per month.	Average monthly consumption.	Average daily consumption per month.	Average daily consumption for the year.
January	361,070,572		11,647,438	
February	307,928,168		10,997,435	
March	338,650,890		10,924,222	
April	315,481,061		10,516,035	
May	325,043,833		10,485,285	
June	355,399,904		11,846,663	
July	374,783,502		12,089,790	
August	370,987,386		11,967,335	
September	349,836,682		11,661,223	
October	368,744,603		11,894,987	
November	354,323,683	l 	11,810,789	
December	398,395,772		12,851,477	
Total	4,220,646,056		•	
Averages		351,720,505		11,563,414

The maximum consumption of water for any one day during the year 1902 was 15,656,000 gallons.

The amount of water consumed shown in the above table includes the supplying of about forty and one-tenth miles of distribution pipes located in adjoining towns, as well as supplying the greater part of the State Institutions at Cranston. The new filtration plant at Pettaconset has used, and will require, a considerable quantity of water. Dexter Asylum has continued to use a considerable quantity of water, as usual, which, together with the use of water in the cold months through small blow-offs at bridge crossings and elsewhere, to prevent freezing, helps to keep up the consumption.

On the 15th of July last a contract was made with Edward W. Everson and Frederick E. Shaw, contractors, for building a slow sand filtration plant at Pettaconset. Not a large amount of work has been done beyond clearing and grubbing the land, building embankments around the area, building one of the small buildings and getting some machinery ready for moving and screening sand, etc. With the opening of spring work should proceed rapidly. The plant will consist of six one-acre filter beds, located on the low ground on the opposite side of the river from the pumping station. The raw water will be raised about seven feet above the ordinary height of the river and when filtered will be taken under the river in a forty-eight inch pipe to the present basin at the pumping station.

Water Works Statistics for the Year 1902.

In Accordance with Form Adopted by the New England Water Works Association.

Providence Water Works, Providence County, R. I.

Population of Providence	185,000
Estimated population supplied in suburbs	13,400
Date of construction	to 1876
By whom owned	vidence.
Source of supplyPawtuxet river, in the town of C	Cranston.
Mode of supply:	

The water is pumped from the Pawtuxet river into a storage reservoir located upon a hill about one mile distant. From this reservoir it flows into the city by gravitation, directly supplying a second storage reservoir within the city limits and also that portion of the city which is of sufficiently low elevation to be served by gravitation. To supply that part of the city of too high an elevation to be served by these reservoirs, a third reservoir is located in the town of North Providence. The water is pumped by supplementary pumping machinery

from the second reservoir above mentioned or from the mams, into the high service reservoir. This supplementary pumping machinery can also supply the high service district, if the reservoir should be out of service, by pumping directly into the mains.

In addition to the regular distribution pipes there is an independent high pressure fire system (deriving its supply from the high service), for protecting an area of about one-half of one square mile in the centre of the business portion of the city.

PUMPING.

- Builders of pumping machinery: 1.
- a. Worthington Duplex engine, built by Henry H. Worthington (Out of service.)
 - Cornish engine, built by Paulding, Kemble & Co. b.
 - Corliss Vertical engine, built by George H. Corliss. c.
 - d.Worthington Triple Expansion engine, built by Henry R. Worthington.
 - e.Nagle High Service engine, built by the Providence Steam Engine Co.
 - Holly High Service engine, built by the Holly Manufacturing Co. f.

Worthington	Corliss	Holly
Triple		High
Expansion.		Service.

Bituminous.

Anthracite egg

Description of coal used, 2. Bituminous

а

a.	Ditumnous.	muninings.	Antinache egg.
b.	George's Creek	George's Creek,	Reading hard,
	Cumberland.	Cumberland and	Reading free burning
		Cranston.	Beaver Meadow,
			Pittston and Seranton.
c.	Price, per gross ton del	ivered	
	\$5.21	\$4.66	\$5.35
d.	Percentage of ash,		
	9.6	13.8	18.5
e.	Wood, price per cord,		
	\$4.50	\$4.50	\$4.00
3.	Coal consumed for the	year, in pounds,	
	*4,850,576	†567,000	913,287

^{*} January 1 to October 21, after which fuel oil was used.

[†] Not including 51,900 pounds when engine was not in service.

4.	[Pounds of wood consumed] ÷ 3 =	= equivalent amount of c	oal in pounds,
	000	8,333	1,484
4a.	Amount of other fuel used,		
	2-0,0-1-0	••••	
	of fueloil, after Oct. 21.		
5.	Total equivalent coal consumed for	or the year, $(3) + (4)$ in	n pounds,
	4,850,909 to Oct. 21 57	5,333	914.771
6.	Total pumpage for the year in gall	ons, with allowance for sl	ip,
	3,089,426,010 to Oct. 21 345,59	1,035 51	9.385,796
	885,394,564 after Oct. 21.		
7.	Average static head against which	n pumps work, in feet,	
	169.25 to Oct. 21	71.23	111.89
8.	Average dynamic head against wh	nich pumps work, in feet,	
		76.31	126.42
9.	Number of gallons pumped per po	ound of equivalent coal (5	i),
	637 to Oct. 21	601	568
10.	$Duty = \frac{Gallons pumped (6)x 8.34 (}{Total fuel}$	lbs.) x 100 x dynamic head (8).
10.	101411401	communica (ii)	
	94,072,700 to Oct. 21 88,	,325,500 5	9,863,100
Cost	OF PUMPING, FIGURED ON PUMPI		
	FOR THE LOW SERVICE, AND \$5.5	556.74 FOR THE HIGH SE	RVICE.
11.	a. Per million gallons pumped	into low service reservoir	
	the cost was		\$6.68
	b. Into high service reservoir (pumped twice, \$6.68 +	
	\$10.70)		\$17.38
12.	Per million gallons raised one f	oot high (dynamic), low	•
	service, the cost was		\$0.0378
	High service (pumped twice, \$6	0.0378 + \$0.0846), cost	
	was		\$0.1224
Ο.	Net cost of works to date		\$6,496,966.27
Ρ.	Bonded debt at date		, ,
Q.	Value of Sinking Fund at date		
R.	Average rate of interest		0.0375
	consu	MPTION.	
1.	Estimated total population of dis	trict at date	198,400
2.	Estimated population on lines	of pipe) Number not ta	king city water so
3.	Estimated population supplied		population is used.
* N.	ot including 250 pounds when angine we	s not in service	

^{*} Not including 250 pounds when engine was not in service.

4.	Total number of gallons consumed for year	4,220,646,056
5. 6.	Passed through meters, Percentage of consumption metered,	t 60 per cent.
7.	Average daily consumption in gallons	11,563,414
	Gallons per day to each inhabitant	11,005,414
8.	Gallons per day to each tap (Distribution 22,)	508
10.	Ganons per day to each tap (Distribution 22.)	303
	DISTRIBUTION.—MAINS.*	
1.	Kind of pipes used	Cast iron.
2.	SizesFrom	6 to 36 inches.
3.	Extended	28,239.52 feet.
4.	Discontinued	.1.199.21 feet.
5.	Total now in use †	
7.	Number of leaks for year, 27, 18 of which were joints, 8 due	to settlement,
	1 electrolysis, repairs costing \$256.90.	
8.	Small distribution pipes, less than four inches, total length	None.
9.	Fire hydrants added.‡	41
10.	Number of hydrants now in use. ‡ (a) fire	1,960
	(b) watering cart hydrants or street sprinklers	63
11.	Stop gates added	. 54
12.	Number now in use	3,530
13.	Stop gates less than four inches	None.
14.	Number of blow-off gates	32
15.	Range of pressure on mains at centre of city for day and	
	night	64 to 73 lbs.
	HIGH PRESSURE FIRE SERVICE.	
Kind	s of pipe used	Cast iron.
Size.	:	6, and 24-inch.
Total	now in use§	5.5698 miles.
Hydr	ants added	None.
Num	ber now in use	92
Stop	gates now in use	31
Num	ber of blow-off gates	4
Press	ure on mains, at centre of business portion of city, for day	
ε	and night	114 1bs.
* N	or including high processes fire consider	

^{*} Not including high pressure fire service.

[†] Includes 10.084 feet of 36-inch pipe, 561 feet of 30-inch pipe, and 695 feet of 24-inch pipe, which are force mains, and 19.66 feet of 30-inch pipe, and 19.478.46 feet of 24-inch pipe, which are used both as a force and delivery main.

[‡] Not including high pressure fire service, or private hydrants.

[§] No connections of any description except for city fire hydrants.

SERVICES.

16.	Kind of pipe Lead from $\frac{1}{2}$ to $1\frac{1}{4}$ inches, a	and cast iron.
17.	SizesFrom ½	to 10 inches.
21.	Services added	591
22.	Number now in use	22,758
25.	Meters added	717
26.	Number now in use	19,216
27.	Percentage of services metered	84
29.	Elevator supplies added	4
30.	Number now in use, 149 of 4 and 6-inch, and 20 smaller sup-	
	plies connected to house elevators.	

REMARKS.

The Cornish engine was not run during the year.

The Worthington Duplex engine was not run during the year. (Out of service.)

The Corliss Vertical engine was run on 116 days.

The Worthington Triple Expansion engine was run on 327 days.

The Nagle engine was not run during the year.

The Holly engine was run on 303 days.

The work relating to this department has been in charge of Irving S. Wood, Assistant Engineer.

SEWAGE DISPOSAL.

The work done at the Ernest street sewage pumping station is shown below.

Total amount pumped for the year is estimated at 6,352,144,806 gallons, at a total outlay for labor, fuel, work in screen chamber and all other charges of \$16,275.70, or \$2,562 per million gallons pumped, or \$0.09316 per million foot gallons pumped.

1	
Daily average for the year	gallons
Daily average for wet weather, or days in which the rainfall was	
enough to visibly affect the quantity pumped23,382,804	gallons
Daily average for dry weather (Sundays not included)17,861,507	gallons
Sunday average for dry weather10,525,797	gallons
Days on which a measurable quantity of rain fell, but not enough	
to visibly affect the pumping	54
Days on which the pumping was visibly affected	58
Days on which no rain fell	253

At the sewage precipitation plant has been completed the first year of full operation, and it can be said that the plant is working satisfactorily. The following per cent. of organic matter has been removed from the sewage as shown by the records for the year 1902:

Total amount (by albuminoid ammonia)	51.42
Amount in suspension (by albuminoid ammonia)	83.51
Total amount (by oxygen consumed)	54.55

The large amount of organic matter removed from the sewage has resulted in producing a very much clearer water in the bay below the outlet, and the water in the Providence river and harbor, while still much below the standard, is greatly improved over what it was several years ago.

Lime and sulphate of iron are the chemicals used for precipitation.

Estimated quantity of sewage passed through tanks was 6.565 million gallons.

Amount of sludge pumped from sludge well into reservoirs was 36,255,000 gallons. After standing, about 13 per cent, was drawn off as comparatively clear water, leaving about 31,384 000 gallons that were passed through the presses.

(For view of sludge presses and general plan of sewage plant, see previous report, pages 42 and 44.)

Presses emptied 24,922 times or 1,259.2 gallons per pressing.

Hours time of pressing, 2,656.5.

The sludge cake is carried about one-eighth of a mile by steam engine and cars, and used for filling. The same engine and cars are used to transfer the lime and iron from the New York, New Haven & Hartford Railroad tracks, about three-quarters of a mile to the plant, where the cars are run into the upper story of the chemical building and the lime and iron dumped into the bins.

The work relating to this department has been in charge of John E. Bowen, Assistant Engineer.

- 5. This city has no legal board of health other than the board of aldermen.
- 6. Charles V. Chapin, M. D., superintendent of health.
- 7. (See report of Dr. Chapin.)
- 8. As a rule, undertakers make prompt returns of deaths.
- As a rule, clergymen make returns of marriages promptly. There has been great improvement upon previous years.

SCITUATE.

No reply from the town clerk.

SMITHFIELD.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. Jenckes Smith, health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers make prompt returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

OSCAR A. TOBEY, Town Clerk.

WOONSOCKET.

- All of the population of this city is supplied by the public water service.
- 3. The aggregate length of sewers in this city is 11 6-10 miles, and about 9,000 are connected therewith.

The following extracts are from the report of the superintendent of the City engineer's department:

SEWER CONNECTIONS.

During the year 87 connections have been made with the main sewers, 13 of which were made by the sewer department and 74 by licensed drain layers. This makes a total of 524 connections made with the main sewers to date; 3 extensions of connections have also been made. It required to make these connections 25,846 lineal feet, or 4.82 miles, of sewer pipe. The sewage from 1.406 tenements, 27 blocks, 2 laundries, 9 mills, 3 hotels 7 boarding-houses, and 5 restaurants are carried by these connections to the main sewers. In these tenements, etc., there live or are employed 8,775 persons. In addition there are 9 schoolhouses connected with the sewer, having 2,500 school children six (6) hours per day for five (5) days per week.

The inspection of sewer connections has required the services of one inspector all the time when the connection was being made.

FILTER BEDS.

In the latter part of the year the city council appropriated \$5,000 for an additional filter bed; this is very much needed, and it should be built as early in the year as possible. During the last two years the filter beds have been overworked, but they have also done splendid work, as shown by the tables of analysis. The

average area of the filter bed to which the sewage is applied is about one-half acre and the average dose has been for the past year 420,000 gallons, or at the rate of 840,000 gallons per acre, and the character of the effluent certainly shows good work. I will quote in part from a communication from Dr. Gardner T. Swarts, secretary of State Board of Health: "I will state that the results show that the intermittent sand filters show most satisfactory results. Again I anote: "The samples supplied to us as being the effluent from your sand beds show a clear water which must necessarily dilute the amount of impurities in the stream into which the effluent flows. If your public supply of drinking-water could receive similar attention there would be no reason why the city of Woonsocket should not receive as clear a water as that flowing from your sewage beds." In addition to the large amount of sewage cared for at the East Filter Fields, there is a very large amount of sewage from cesspools, paper and rubbish from everywhere, carried in carts and wagons to the West Filter Fields and there disposed of as follows: Matter from cesspools is dumped into trenches and covered over with earth, the paper is burned and the rubbish is carted to the lower end of the field and dumped onto the ground. During the year 1901 there were disposed of 3.378 loads of sewage. 1.940 loads of paper, and 777 loads of rubbish, making a total for the year of 6.095 loads. During the year 1902 there were 3,597 loads of sewage, 1,361 loads of paper, and 429 loads of rubbish, making a total for the year of 5,387 loads, or a total of 11,482 loads for two years, and there is undoubtedly a large amount disposed of elsewhere.

The percentage of removal of impurities as shown by the yearly average is: Free ammonia, 92.88 per cent.; albuminoid ammonia, 95.2 per cent.; carbonaceous matter, shown by the oxygen consumed, 93 per cent.; removal of bacteria, 99.3 per cent.

FRANK H. MILLS,

City Engineer.

- 6. William C. Monroe, M. D., health officer,
- 7. Gratuitous vaccination was provided during the year.
- 8. _ Undertakers make prompt returns of deaths.
- 9. Clergymen make returns of marriages promptly.

WILLIAM C. MASON, City Clerk.

WASHINGTON COUNTY.

CHARLESTOWN.

1. Nothing for the promotion of the public health has been done during the year.

- 2. This town has no public water service.
- 3. This town has no sewage system.
- 4. No new sanitary ordinances have been enacted during the year. (Contagious disease ordinance, see report of 1900, p. 56.)
 - 5. This town has no legal board of health other than the town council
 - 6. Milton Duckworth, M. D., health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers have made prompt returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

George C. Cross, Town Clerk.

EXETER.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. This town has no health officer.
 - 7. Gratuitous vaccination was not provided during the year.
 - 8. Undertakers do not make prompt returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

JOHN H. EDWARDS. Town Clerk.

HOPKINTON.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
- 4. No new sanitary ordinances have heen enacted during the year. (Contagious disease ordinance, see report of 1894, p. 59.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Henry H. Crandall, health officer.
 - 7. Gratuitous vaccination was not provided during the year.

- 8. Undertakers make prompt returns of deaths.
- 9. Clergymen make returns of marriages promptly.

EDWIN R. ALLEN, Town Clerk.

NARRAGANSETT.

- 1. Not hingfor the promotion of the public health has been done during the year.
- 2. There has been no extension of the public water service of this town during the year.
- 3. The aggregate length of sewers in this town and the number of people connected therewith is the same as for the previous year.
- 4. No new sanitary ordinances have been enacted during the year. (Ordinance relative to sewers, see report of 1901, p. 47.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Solomon H. Hale, health officer.
- 7. Gratuitous vaccination was provided during the year. Most of those who availed themselves of the same were school children.
 - 8. Undertakers make fairly prompt returns of deaths.
 - 9. Clergymen make fairly prompt returns of marriages.

W. HERBERT CASWELL, Town Clerk.

NORTH KINGSTOWN.

- Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
- 4. No new sanitary ordinances have been enacted during the year. (Nuisance and contagious disease ordinances, see report of 1896, p. 60.)
 - 5. This town has no legal board of health other than the town council.
 - 6. Harold Metcalf, M. D., health omcer.
- 7. Gratuitous vaccination was provided during the year, and about one-fourth of the population availed itself of the same.
 - Undertakers make prompt returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

THOMAS J. PEIRCE. Town Clerk.

RICHMOND.

- 1. Nothing for the promotion of the public health has been done during the year.
 - 2. This town has no public water service.
 - 3. This town has no sewage system.
 - 4. No new sanitary ordinances have been enacted during the year.
 - 5. This town has no legal board of health other than the town council.
 - 6. Charles A. Fuller, health officer.
- 7. Gratuitous vaccination was provided during the year in February, and about 149 persons availed themselves of the same.
 - 8. Undertakers make prompt returns of deaths.
- 9. Clergymen are now doing very well in making prompt returns of marriages; much better than formerly.

HALSEY P. CLARKE, Town Clerk.

SOUTH KINGSTOWN.

No reply from the town clerk.

WESTERLY.

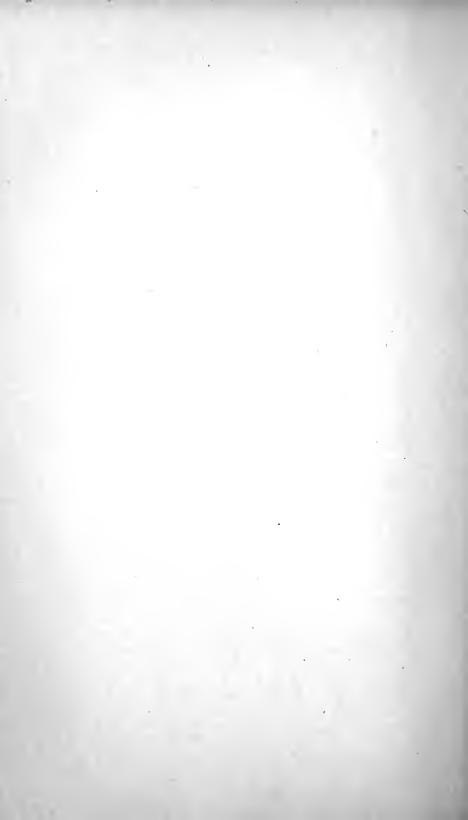
- 1. Nothing for the promotion of the public health has been done during the year.
- 2. About seven-eighths of the population of this town is supplied by the public water service.
 - 3. This town has no sewage system.
- 4. No new sanitary ordinances have been enacted during the year; the present ones have been well enforced.
 - 5. This town has no legal board of health other than the town council.
 - 6 E. Howard Clarke, health officer.
- 7. Gratuitous vaccination was not provided during the year, as none was requested.
 - 8. Undertakers make prompt returns of deaths.
 - 9. Clergymen make returns of marriages promptly.

WILLIAM HOXSEY, Town Clerk.

REPORTS OF

HEALTH OFFICERS.

1902.



CIRCULAR TO HEALTH OFFICERS.

CIRCULAR, No. 131.

OFFICE OF THE SECRETARY OF THE STATE BOARD OF HEALTH,

PROVIDENCE, January 1, 1903.

To the Health Officer:

DEAR SIR:—An important feature of the annual reports of the Rhode Island State Board of Health is that of giving a connected history of the occurrence of contagious and epidemic diseases from year to year, as they may have prevailed in the different towns, whether epidemically or in a less degree, together with the location in the town (village or otherwise), and season of the year.

If the **proportion** of the **fatal** cases to the **whole number** of cases of the same **disease** could be given, the value of such reports would be very much enhanced. Such proportion can be ascertained only in such towns as by town ordinance require physicians to report all cases of such diseases as come within their charge.

An approximate proportion can, however, be given, after the subsidence of the disease, by inquiry of persons living in the immediate neighborhood of the prevalence of such disease, as to the number of the sick, or by house to house visitation where the sickness occurred, with the same inquiry, and by the comparison of the deaths with recoveries as so ascertained.

It is for the purpose of obtaining such information, in full or approximate, and also what may have been done to prevent and restrict diseases, that the questions in the inclosed circular are sent to the various health officers of the State.

To Health Officers who are not physicians, it may be said that the term epidemic within the meaning of the questions proposed, is the prevalence of some disease to the extent of one or more persons affected with the disease to every five or six persons living in adjacent tenements or in the near neighborhood, or a smaller proportion, not less than one case of the disease in every ten or twelve of the population, extending over a large area of territory. One sick in

every twelve to sixteen persons might be called a **large prevalence**, and one sick in every twenty to twenty-five, a **moderate prevalence**. The number of cases of any one disease may have to be estimated, but make them as nearly correct as possible.

If, therefore, you will have the kindness to reply to the questions in the said circular, according to the best knowledge you have been able to obtain, and forward in the inclosed stamped envelope, you will favor one of the most important interests in the State, and greatly oblige,

Yours truly,

GARDNER T. SWARTS,

Secretary State Board of Health.

CIRCULAR No. 132.

Dear Sir:—Replies to the following questions, as suggested in the accompanying circular (No. 131), are respectfully solicited; said replies to be made on this circular, following each question:

- 1. Name of town.
- 2. Name of health officer.
- 3. Have there been, within your knowledge, any epidemics, or any large prevalence of contagious or infectious diseases in your town during the past year? If so, of what disease or diseases? in what locality or localities? how many of each disease?* number of deaths? and in what months of the year?

Diseases.	Locality.	No. of cases.	No. of deaths.	Months in which they occurred.

- 4. Was isolation maintained or attempted?*
- 5. What proportion of the sick, if any, were isolated?
- 6. Was any inspection of premises made, where sickness prevailed, as to the

^{*}According to the best knowledge obtainable.

sanitary condition of the cellars, pantries, sinks, sink-drains, water-closets, if any, cess-pools, out-house privies, distance of wells from accumulations of filth, etc., etc.? If so, please give a general statement as to whether they were sanitarily in conditions good or bad, or, if any thing or place was unusually unsanitary, give a full description. Or, if the cause of any outbreak of disease was found, please state what.

- 7. Did you make any sanitary inspections during the past year, by order of the town council or from your own option? If so, what were they and how made?
- 8. Do you know of any location in your town that seems to be particularly unhealthy to any considerable number of persons? If so, and the cause is suspected, can such cause be removed at any reasonable expense?
- 9. Do you report to your town council nuisances dangerous to the public health, or unsanitary premises within your knowledge; or of buildings unsafe for occupants in case of fire? (See Chapter 495, Section 6, Public Laws.)
- 10. Has there, to your knowledge, been any contamination of any of the water, milk, or ice supplies in your town?
 - 11. Please give names and addresses of dealers in ice in your town.

REPORTS OF HEALTH OFFICERS.

BRISTOL COUNTY.

- 1. Barrington.—No report from the health officer.
- 1. Bristol.
- 2. Everett L. Church, health officer.
- 3. There have been no epidemics or any large prevalence of contagious diseases in this town during the year.
 - 4. Isolation was maintained in all instances.
 - 5. Most of the sick were isolated.
- 6. Inspection of premises where sickness prevailed was made, and in most cases the sanitary conditions were found to be good.
- 7. From my own option, I made sanitary inspections of cess-pools and found them in bad condition.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. Morris Brothers and J. P. Reynolds are the ice dealers of this town.
 - 1. WARREN.
 - 2. George L. Drown, health officer.
- 3. Small-pox was prevalent in the north end of the town during the months of March and April, there being fifteen cases of this disease, with one death.
 - 4. Isolation was maintained.
 - 5. All of the sick were isolated.
 - 7. A number of sanitary inspections were made during the year.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council, when brought to my attention.

- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
- 11. E. Tiffany, of Barrington, and Fred M. Tanner are the ice dealers of this town.

KENT COUNTY.

- 1. COVENTRY.
- 2. Dr. John Winsor, health officer.
- 3. There were no epidemics in this town during the year.
- 4. Isolation was maintained.
- 5. All were quarantined that was considered necessary.
- 6. Inspections of premises where sickness prevailed were made, and all found in fair sanitary condition.
- 7. Several sanitary inspections were made during the year, mostly of closets in the village of Anthony.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk. or ice supplies of this town.
- 11. Manchester Brothers, Daniel Wood, and Winfield T. Lewis are the ice dealers of this town.
 - 1. East Greenwich.
 - 2. Elbridge G. Carpenter, M. D., health officer.
 - 3. There were no epidemics in this town during the year.
 - 4. The occasional cases of scarlet fever and diphtheria were isolated.
 - 6. Inspections of premises where sickness prevailed were made.
- 7. All sanitary inspections made during the year were upon request of interested parties.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. George W. Sunderland and E. A. Sweet are the ice dealers of this town.

WEST GREENWICH has no health officer.

1. WARWICK. No report from the health officer.

NEWPORT COUNTY.

- 1. Jamestown. No report from the health officer.
- 1. LITTLE COMPTON. No report from the health officer.
- 1. Middletown.
- 2. George E. Ward, health officer.
- 3. There were no epidemies in this town during the year.
- 6. No inspection of premises where sickness prevailed was made.
- 7. No sanitary inspections were ordered.
- 8. No unhealthy localities in this town are known.
- 9. I have had no occasion for reporting public nuisances or unsanitary premises.
 - 1. Newport.
 - 2. J. W. Sampson, executive health officer.
- 3. The contagious diseases reported during the year were as follows: scarlet fever, 78 cases and 3 deaths; diphtheria, 49 cases and 6 deaths; typhoid fever, 72 cases and 8 deaths; and small-pox, one fatal case.
 - 4. Isolation was maintained.
 - 5. About seventy per cent. of the sick were isolated.
- 6. Inspections of premises where sickness prevailed were made, and generally sanitary conditions were good; the most trouble was from sinks without traps.
- 7. Sanitary inspections were ordered by the board of health, and were made by the inspector of nuisances and the executive officer.
 - 8. No unhealthy localities in this city are known.
 - 9. The board of health has full power in all eases dangerous to public health-
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this city.
 - 11. The Arctic and the Newport Ice Companies are the ice dealers of this city.
 - 1. NEW SHOREHAM.
 - 2. Hamilton A. Mott, health officer.
 - 3. There were no epidemics in this town during the year.

- 4. Isolation was not maintained.
- 5. None of the sick were isolated.
- 6. Inspections of premises where sickness prevailed were not made.
- 7. No sanitary inspections were made during the year.
- 8. No unhealthy localities in this town are known.
- All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. C. J. Negus is the ice dealer of this town.
 - 1. Portsmouth.
 - 2. Minot A. Steele, M. D., health officer.
- 3. Typhoid fever was prevalent in this town during the months of September, October, and November, there being thirteen cases of this disease, three of them being fatal.
 - 4. Isolation was not maintained.
- 6. Inspections of premises where sickness prevailed were made, and in all cases the sanitary conditions were found to be good, with one exception: namely, a large tank of water used for drinking purposes in which was found a large number of dead sparrows.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., when any such occur, are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. William H. Tallman is the ice dealer of this town.
 - 1. Tiverton.
 - 2. Edward P. Stimson, M. D., health officer.
 - 3. There were no epidemics in this town during the year.
 - 4. Isolation was attempted and maintained in some cases.
- Inspections of premises where sickness prevailed were made, and sanitary conditions generally found good.
- 10. There has been, to my knowledge, no contamination of the water, milk. or ice supplies of this town.

11. Isaac F. Brownell, of Tiverton, and Seabury & Peckham, of Tiverton Four Corners, are the ice dealers of this town.

PROVIDENCE COUNTY.

- 1. Burrillville.
- 2. John W. Clavin, health officer.
- 3. There were no epidemics in this town during the year.
- 4. Isolation was maintained in a few cases of diphtheria.
- 6. Inspections of premises where diphtheria prevailed (also school houses, wells, and vaults) were made, but no unusual conditions were found. All premises were placed in good order.
- 7. Continual sanitary inspections, both by order of the town council and from my own option, were made during the year, and wherever unhealthy or unsanitary conditions were found, the same were rectified to the best of my ability.
 - 8. No unhealthy localities in this town are known.
- All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
- 11. Frank W. Wood, of Harrisville, and Charles A. Moore, of Pascoag, are the ice dealers of this town.
 - 1. Central Falls.
 - 2. Charles F. Sweet, M. D., health officer.
- 3. During the year there were fifteen cases of small-pox in this city, none of which, however, were fatal; also 140 cases of measles, four of which were fatal.
 - Isolation was maintained.
- 5. All of the sick were isolated. In the measles cases all children in the affected families were kept from school.
- 6. Inspections of premises where sickness prevailed were made, but no unusually unsanitary place was found.
- 7. Sanitary inspections of premises were made in all cases of contagious and infectious disease, and on any complaint of anything unsanitary or unpleasant even.
 - 8. No unhealthy localities in this city are known.

- 9. All nuisances are ordered abated and abatement insisted upon.
- 10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this city.
- 11. George H. Spaulding, the Central Falls Ice Company, and Charles H. Perry & Company are the ice dealers of this city.
 - 1. Cranston.
 - 2. Daniel S. Latham, M. D., health officer.
 - 3. There were no epidemies in this town during the year.
 - 4. Isolation was attempted, and very well maintained.
 - 5. All of the sick were isolated.
- 6. Inspections of premises where sickness prevailed were made, and in most cases sanitary conditions were good. During the summer months the vicinity around Church street became so unsanitary that the council condemned several buildings, and compelled the landlords to close the same.
- 7. Sanitary inspections of the premises described above were made first at my own option, and later by advice from the town council.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. The Crystal Ice Company is the ice dealer of this town.
 - 1. Cumberland,
 - 2. James A. Cullen, M. D., health officer.
 - 3. There were no epidemies in this town during the year.
 - 4. Isolation was maintained.
 - 5. All of the sick were isolated.
- Inspections of premises where sickness prevailed were made, and sanitary conditions were found to be good.
- 8. Cushing street, in Ashton, is improperly drained. As a result, there is a pool of water present throughout the year. Malaria is a common complaint in this neighborhood.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.

- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
- 11. John Conley, of Ashton; James Meharg, of Lonsdale, the Lonsdale and the Pawtucket Ice Company are the ice dealers of this town.
 - 1. East Providence. No report from the health officer.
 - Foster.
 - Henry Arnold, M. D., health officer.
 - 3. There were no epidemics in this town during the year.
 - 7. No sanitary inspections were made during the year.
 - 8. No unhealthy localities in this town are known.
- 9. Public nuisances and unsanitary premises are not reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. There are no ice dealers in this town.
 - 1. Glocester.
 - 2. George A. Harris, M. D., health officer.
 - 3. There were no epidemics in this town during the year.
 - 7. No sanitary inspections were made during the year.
 - 8. No unhealthy localities in this town are known.
- 9. There have been no public nuisances or unsanitary premises to report during the year.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. Wilson & Place are the ice dealers of this town.
 - 1. Johnston.
 - 2. Ralph H. R. Shaw, M. D., health officer.
 - 3. There were no epidemics in this town during the year.
- 7. From my own option, inspections of cess-pools and privy vaults were made periodically.
 - 8. No unhealthy localities in this town are known.
- 9. Public nuisances and unsanitary premises are not reported to the town council, as the board of health of this town possesses the powers formerly vested in the council.

- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. W. E. Merritt is the ice dealer of this town.
 - 1. Lincoln. No report from the health officer.
 - 1. North Providence. No report from the health officer.
 - 1. NORTH SMITHFIELD. No report from the health officer.
 - 1. PAWTUCKET.
 - 2 Byron U. Riehards, M. D., eity physician.
- 3. Typhoid fever was quite prevalent during the months of September and October, there being about thirty cases with six deaths.
- Isolation was maintained in cases of diphtheria, scarlet fever, and small-pox.
 - 5. All of the sick were isolated.
- 6. In a general way the sanitary conditions in this city are poor. Inspection of premises was the rule.
- 7. From my own option, 105 sanitary inspections were made. Complaints were mostly due to defective plumbing, causing, no doubt, in several cases, such diseases as typhoid fever and diphtheria.
- 8. Several unsanitary localities in this $\alpha^i y$ are known, and for that reason I am attempting to have a board of health established here.
- 9. All public nuisances, unsanitary premises, etc., are reported to the city council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this city.
- 11. The Central Falls, Citizens, Pawtucket, Saylesville, Seekonk, and Union Ice Companies, Telesphore Deshetres, Thomas Knowles, and the C. H. Perry Ice Company are the ice dealers of this city.
 - 1. Providence.
- 2. Superintendent of health, Charles V. Chapin, M. D.; vaccinating physician, Charles H. Leonard, M. D.; medical inspector, Eugene P. King, M. D.
- 3. The following extracts from Dr. Chapin's report will fully answer all questions in circular No. 132:

GARBAGE.

During the year the "swill and house offal" was collected by Messrs. A. H. & J. Barney under a temporary arrangement at the rate of 15½ cents per capita. The amount paid has been \$2,299.17 per month, the population being estimated at the time the agreement was made at 178,000. This makes the annual payments \$27,590.04. The contractors use from 20 to 22 two-horse wagons, and it is estimated that about 16,000 tons of garbage are collected annually.

During the year 486 complaints were received from householders in regard to the removal of their swill, or in regard to articles supposed to be lost in it. Most of these complaints were due to failure to report return home after absence, or to the putting of ashes or other improper matters in the swill.

A small amount of garbage is collected by farmers who receive a special license for this. There are also a considerable number of farmers who purchase swill from the contractors and draw it out into the country to feed to swine. Each person is required to have a license for this, and to carry the swill in a tight box closely covered. In all 127 of these licenses were issued during 1901. These licenses run from April 1st to April 1st. This change in the date for granting licenses was made so that it might not be necessary to repair and paint the wagons for inspection during the bad weather of winter.

At the time when the health department was established in 1856, the present plan had been followed for a number of years of making a contract for the removal of swill, as it was called, with a single responsible party. The price had varied from \$800 to \$1,600. The then Superintendent of Health believed that an economy could be effected, and, at the same time, better results secured by making contracts with several parties who could collect from a single district, usually a ward. This plan was followed until 1868, but did not prove satisfactory, as indeed it never has in any city where it has been tried. The collections became worse rather than better. The compensation was usually small, rarely over \$50 per ward. The amounts expended were as follows:

$$1857 — \$358 \quad 1858 — \$150 \quad 1859 — \$425 \quad 1860 — \$243.74 \quad 1861 — \$106.26$$

$$1862 — \text{none} \quad 1863 — \$104.17 \quad 1864 — \$283.33 \quad 1865 — \$212.50$$

$$1866 — \text{none} \quad 1867 — \text{none}$$

For a period of three years the farmers removed the garbage for nothing, making their profit from the swine which they fed with it. In 1868, a contract was made with the A. & W. Sprague Mfg. Co., under which they agreed to remove the swill without cost to the city. This they did satisfactorily until their failure in 1873. It is said, however, that they lost a very considerable sum of money

through this contract. From 1874 until 1879 Messrs, A. E. Field & Son collected the garbage and received for it the following sums:

These parties had worked for the Spragues and removed the swill in the same manner, in two-horse wooden covered wagons. On May 1, 1879, they entered into a ten years' contract to collect and remove the garbage from the city for \$6,600 per annum. But as a result of their representation that they were losing money, their compensation was increased in April, 1884, to \$9,000 per annum, again in July, 1885, to \$12,000, and in April, 1888, to \$14,500. On the expiration of their contract, April 30, 1889, they demanded \$24,000, but a five-year contract was made with A. H. & J. Barney to remove the garbage at the rate of 151 cents per capita, per annum, the population to be estimated by the City Registrar each year. Their first payments were at the rate of \$19,684.05 per annum. had two five-year contracts, and since May 1, 1899, have collected and removed the garbage under short term agreements. Except for a period of a little over four years the garbage has been hauled out of the city and used for feeding swine. It is possible for a person to pay something for garbage, haul it several miles into the country and make a profit by feeding to swine. In some cases the profit from the swine will pay for the collection, if it is from a small district. It is only when hog raising is conducted in a small way, in conjunction with other farming operations that this is true. The experience of Providence and a large number of other cities shows that the cost of collecting garbage from a city cannot be met by the profits from raising swine on the garbage. The evidence from the experience of these cities is equally conclusive that this method of garbage disposal is the only one which does not place a financial burden upon the city for disposal, in addition to that for collection. This method besides costing nothing for disposal, often serves to diminish or partly defray the cost of collection. 1901, the cost of collection in a number of New England cities which collect the garbage by their own employees, was as follows: Boston, 20 cents per capita; Cambridge, 29 cents, Brockton, 19 cents; Lynn, 19 cents; Springfield, 20 cents; Somerville, 20 cents; Worcester, 15 cents. While in the following cities where it is collected by contractors who feed it to swine, the cost is in Fitchburg 9 cents per capita, in Haverhill, 7 cents; in Portland, 10 cents; in Holyoke, 2 cents; and in New Haven, 5 cents. Moreover, in Worcester where the city raises swine on the garbage, the cost was by this means reduced to 4 cents per capita, and in Brockton by raising swine and the sale of garbage to 8 cents per capita. In a number of cities the cost of collection is partially defrayed by the sale of garbage

Thus in 1901 Lowell sold \$2,833.20 worth of garbage; Somerville, \$1,100; Brockton, \$1,232.84; Lynn, \$3,788.82; Cambridge, \$8,016.17; and Springfield, \$1,-333.53.

Objection is frequently made that the disposal of garbage by feeding to swine is "unsanitary," that it is a nuisance, and dangerous to health. Various propositions have from time to time been considered in this city for changing our method of disposal on account of its danger to health, or because of alleged nuisance. There are a number of ways of disposing of garbage. It may be deposited on dumps, thrown into the bay, or ocean, ploughed into land, fed to swine, "reduced," that is the grease extracted, and the residue dried for fertilizer, or lastly it may be cremated. The first three methods cannot be made use of in Providence without causing great nuisance, and would not be tolerated for a moment. Reduction and cremation are expensive. The various schemes proposed would cost from \$10,000 to \$20,000 more than we are now paying. It would therefore be great folly to change unless such change was absolutely necessary. This is particularly true of a time when there does not appear to be money enough to properly care for smallpox and diphtheria, to provide for the medical inspection of schools, or to maintain a public bath or public comfort station. If our present method of sending our garbage into the country to be fed to swine could be shown to injure our own health, or that of our neighbors, it would be another matter. But our knowledge of the mode of transmission of the communicable diseases shows us that we have nothing to fear from this source. Feeding garbage to swine will not cause disease, either in Providence or in the towns to which it is removed. In an experience of 19 years, I have never found a case of sickness that could be thus explained. And my distinguished predecessor the late Dr. Snow, who could scent disease in decay, if anybody could, never considered this a dangerous method of disposal. In a report on garbage disposal presented by a joint special committee of the city council Dec. 16, 1901, there was offered a large amount of testimony from New England cities to show that disease had never been traced to the feeding of garbage to swine. In passing, it may be mentioned, that the New England cities which are far ahead in sanitary matters feed more garbage to swine than all the rest of the country together.

As regards nuisance, the feeding of garbage to swine as usually conducted, is productive of some nuisance; sometimes of great nuisance. But so are other methods of garbage disposal. I have personally inspected many methods of garbage disposal and would unhesitatingly affirm that there is less nuisance from the hog farms of Providence, Worcester, and Brockton than from the crematories of Montreal, Trenton, and Norfolk, or the reduction works of Boston and Buffalo. At their worst, hog farms affect comparatively few people; while crematories and rendering works, which must necessarily be located in the city itself, affect

very many people. It would be foolish, indeed, to spend annually a large sum of money to transform a possible nuisance in a country town into a certain nuisance in the heart of our own city. I furthermore feel sure that if the care and attention were bestowed on hog raising that has been given to reduction and cremation, the former could be conducted with practically no nuisance and with much greater profit than at present.

There is, however, one change that could be made in our method of garbage collection, which, though involving some expense, would, I believe, meet with the hearty approval of all our citizens. If the garbage could be collected daily in hot weather, householders would be relieved of a very considerable nuisance, which now seems unavoidable.

BOARDING HOUSES FOR INFANTS.

These boarding houses are required to take out licenses annually by Chapter 464 of the Public Laws (20 May, 1897). They must also be inspected annually by this department. Eighteen licenses were issued in 1901 authorizing the receiving of 42 children. The largest number in any one house was four.

There are no baby farms in the ordinary acceptation of the term in the city, that is there are no places where large numbers of children are kept together under poor surroundings and with neglect of all sanitary precautions.

LODGING HOUSES.

The exceedingly bad condition of the lodging houses in this city was set forth in my last report. As was then stated, they are not only a moral and social evil, but they are a direct menace to health, for they are very likely to receive infection from other cities and offer an excellent opportunity for its extension here. Of the 48 cases of small-pox in this city last year, 10 were in lodging houses. Previous to my report on this subject, action had been 'taken by the city council, and legislation asked for, and the following statute was enacted:

CHAPTER 1014 OF THE PUBLIC LAWS.

AN ACT TO REGULATE PUBLIC LODGING HOUSES IN THE CITY OF PROVIDENCE.

[Passed March 28, 1902.]

SECTION 1. Every building or part thereof in the city of Providence, in which ten or more persons are lodged for a price for a single night of twenty-five cents or less for each person, shall be deemed a public lodging house within the meaning of this act.

Sec. 2. The board of police commissioners for said city may license persons to keep public lodging houses in said city. A fee of one dollar shall be charged

for such license, and it shall expire on the first day of February next after the granting of the same, but no fee shall be charged for such license in case such building or part thereof is licensed as a tavern. Every such license shall specify the street or other place, and the number of the building, or give some other particular description thereof, where the licensee shall exercise his employment; and the license shall not protect a person exercising his employment in any other place than that so specified.

- Sec. 3. No such license shall be granted until the inspector of buildings of said city has certified that the building or part thereof to be used as such public lodging house is provided with sufficient means to escape in case of fire.
- SEC. 4. No such license shall be granted until the superintendent of health of said city has certified that the building or part thereof to be used as such public lodging house is provided with a sufficient number of water closets, and also has good and sufficient means of ventilation; and said superintendent may from time to time require the licensee to thoroughly cleanse and disinfect all parts of such public lodging house, and the bedding, furniture, and other property used therein, to the satisfaction of said superintendent, and the licensee shall comply at once with any such requirement.
- Sec. 5. In every public lodging house a register shall be kept, in which shall be entered the name and address of each lodger, together with the time of his arrival and departure, and such register shall at all times be open to the inspection of the police.
- SEC. 6. The keeper of every public lodging house shall at all times, when required by any officer of the health department or police department of said city, give him free access to said house and any part thereof for the purposes of inspection or other purposes of this act.
- Sec. 7. The board of aldermen of said city, acting as the board of health for said city, may prescribe from time to time sanitary rules and regulations, subject to which such public lodging houses shall be conducted.
- SEC. 8. Whoever keeps a public lodging house, or is concerned or in any way interested therein, without being duly licensed as hereinbefore provided shall upon conviction thereof, be fined not exceeding one hundred dollars; and any keeper of a public lodging house who violates any of the provisions of this act, or any such rules or regulations of said board of aldermen, shall, upon conviction thereof, be fined not exceeding one hundred dollars. In case any such licensee shall violate any of the provisions of this act, or any such rules or regulations of said board of aldermen, or shall fail to comply with any such requirement of said superintendent of health, said licensing board may immediately revoke his license.

Sec. 9. This act shall take effect from and after the 1st day of June, A. D. 1902.

In accordance with the provisions of this act the following rules were adopted by the Board of Aldermen:

Rules Concerning Lodging Houses.

[Adopted by the Board of Alderman July 17, 1902.]

Resolved, That all public lodging houses in the city of Providence, as defined by Chapter 1014 of the Public Laws, entitled "An Act to regulate Public Lodging

Houses in the City of Providence," passed at the January Session, A. D. 1902, shall be conducted subject to the following sanitary rules and regulations, which are hereby prescribed:

- All floors and stairways must be sound, smooth and either painted or shellacked.
 - 2. Open and spacious dormitories will be preferred.
- 3. There shall not be less than two horizontal feet between the sides of any two beds.
- 4. All bedsteads must be single and of iron; sleeping on wooden benches shall not be permitted.
- 5. Mattresses, pillows and bed clothing must be kept clean to the satisfaction of the Superintendent of Health.
 - 6. Mattresses must be covered with a waterproof covering.
- 7. No person shall be allowed to sleep or to lie or to sit on the outside of any bed in his day clothing.
 - 8. No person who is not clean shall be allowed to retire without a bath.
- 9. The floors of water closets must be made waterproof to the satisfaction of the Superintendent of Health; and every lodging house must be furnished with one or more lavatories, and a shower bath with hot and cold water, or other suitable means for bathing satisfactory to the Superintendent of Health.
 - 10. All movable receptacles for excretions are prohibited.
 - 11. Smoking in sleeping rooms is prohibited.
 - 12. A reliable person or persons must be in attendance at all hours of the night.

Witness:

WILLIAM E. CLARKE,

City Clerk.

DISINFECTION.

Disinfection after communicable disease in the city is not compulsory, and is only done at the request of the family. It is done by this department without charge.

Formaldehyde disinfection has been done in nearly every instance. A modified Chicago method is followed. In some of the houses sheets are hung up and sprayed exactly as in Chicago, but in a large proportion of cases the spray is applied to the carpets, rugs, hangings, bedding, etc., that may happen to be in the room, all of which are spread out as freely as possible. Occasionally goods are removed from the house for steam sterilization. Corrosive sublimate and formalin are left at nearly every infected house with directions as to their use.

A little more attention was perhaps given to disinfection after small-pox than after other diseases. In nearly every case all the infected bedding and clothing was burned or treated with steam. Also special attention was given to the application of corrosive sublimate to floors, woodwork, and furniture. In some cases this was left to the householder, and in others it was done by a woman employed by this department. In the lodging houses the floors were sprinkled

with a watering pot. In the lodging houses and on the steamer Essex, no gaseous disinfection was employed, but reliance was placed on corrosive sublimate and the treatment of the bedding and clothing.

In twenty-one instances formalin was used by spraying upon sheets, floors, or bedding. In seven cases sulphur fumigation was relied on. In no instance did any case of the disease afterwards arise which could by any possibility be attributed to lack of disinfection.

VACCINATION.

During the year 1902 the number of persons vaccinated was 10,665. The only public vaccination has been at the Fourth Ward Room on Fountain Street Friday afternoons. The use of humanized virus which had hitherto been chiefly employed, was discontinued early in 1901 and glycerinized virus furnished by the Health Department of the city of New York has since been used. The number of certificates of vaccination issued was 3,558.

QUARANTINE.

The following is the number of vessels hailed by the signal officer:

1893 (from May 18)	98
1894	32
1895	82
1896 10	96
1897	90
1898	78
1899 4	14
1900	91
1901	15
1902	25

The following is a list of the vessels boarded by the health officer, and the places from which they sailed:

	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
British Provinces	14	2	0	0	1	0	0	0	0	()
West Indies	11	14	18	10	9	8	10	10	5	47
Italy	1	2	2	2	0	1	0	0	0	0
South America	1	0	0	0	0	0	0	0	0	0
Turkey	0	0	0	0	1	1	0	0	0	0
Russia	0	0	0	0	0	1	0	0	0	0
United States	3	0	0	σ	O	1	7	0	0	0
Azores and Cape Verde Islands	0	0	ο	0	0	0	0	1	4	3
Africa		0	0	0	0	0	0	0	0	1
Great Britain	0	0	ο	0	0	0	0	0	0	3
Total	30	18	20	12	11	12	17	11	9	54

As is shown in the above table many more foreign vessels were inspected in 1902 than ever before. This was due chiefly to the establishment of a regular line of steamers between Jamaica and this port. This enlarged foreign commerce called renewed attention to quarantine and was the cause of a resolution of your board on June 9, asking if any additions or amendments to the quarantine statutes and rules were necessary or advisable. At that time I reported in substance that, while there were many obsolete provisions in the quarantine law, and that it failed to recognize the progress that had been made in preventive medicine during the past twenty-five years, yet with a liberal interpretation of the law and with the assistance of the federal statutes, maritime quarantine is administered at this port so that this city is protected as well as are other seaport cities, would be possible to make our quarantine regulations more in accord with modern conditions and to remove certain inconsistencies which now exist. This, however, can only be done by a revision of the State laws relating to this subject. Theoretically this should be done, but whether it is actually necessary or advisable will be best determined by the committee on ordinances of the city council to whom this matter was referred.

In administering maritime quarantine at the present time several things should be borne in mind:

1. Owing to rapidity of communication between different parts of the world, the presence of United States consuls in almost every port, the existence of a responsible sanitary organization in almost every port, the dissemination of information of outbreaks of disease by the daily press, as well as by the weekly

reports of the marine hospital service, render our knowledge of the sanitary condition of foreign ports very accurate. Formerly every foreign vessel, and most vessels from distant domestic ports were under suspicion. Formerly we could know of the existence of an epidemic in a foreign port, only by means of a slow sailing merchantman which, perhaps, would bring the disease itself at the same time with the news of the outbreak. To-day we are usually as sure of the sanitary condition of a foreign port as we are that of Newport, New York, or Baltimore. As we ordinarily have nothing to fear from domestic ports so we usually have nothing to fear from most foreign ports, and we would be informed as promptly and certainly of yellow fever in Jamaica as in Brunswick, Ga. I consider it still necessary that every foreign vessel should be inspected, as is indeed required by the federal rules, but in applying these rules we should remember that the actual danger of importing disease into Providence by foreign vessels is no more, and in most cases is less than is the danger of its importation by vessels from New York, or Newport News. And the danger of such importation at the present time is only a fractional part of what it was 150 years ago when our quarantine legislation and methods had their origin. Within my recollection there has never been a case of communicable disease brought here in a foreign vessel, but small-pox has been brought here several times on vessels from Baltimore and Norfolk; in every instance on vessels not subject to quarantine.

2. In determining the strictness with which maritime quarantine should be enforced it must be borne in mind that at the present time the danger of importing disease by rail is very much greater than by sea. Far more people enter the city by land than by water. We are in rail communication not only with all parts of the United States, but also with Canada and Mexico. Far more disease has been brought to us by rail than by water, and it is likely to be so in the future. Yet ordinarily no restriction is put upon this mode of communication and it would be impracticable to attempt it.

Just now smallpox is prevailing in many cities with which we are in close rail communication, as for instance Boston, but it does not happen to be at all prevalent in any of the ports from which we are likely to have foreign arrivals. Bubonic plague has existed for two years or more in San Francisco, and people and goods are continually passing from that city to this without restriction.

3. Our knowledge of the mode of transmission of the communicable diseases has been greatly increased during the last few years. Formerly it was believed that eargoes and the structure of the vessel itself might bring disease into a port and that infection might even be blown by the wind from a vessel to the shore, hence the ancient provision still in our statutes that vessels subject to quarantine must anchor a least one mile from any public landing place, and the explicit directions for disinfecting eargo and cleansing the ship. But we now know that

ships and cargo do not become infected. It is the people on the ship not the ship which is to be feared. The only possible danger in having a vessel come directly to the wharf for inspection is that an infected rat might escape from a plague ship or an infected mosquito from a yellow fever vessel. The chance of this happening before the hatches are removed and the cargo disturbed are slight indeed, many times less than the danger of infection by rail with these diseases. It can safely be ignored. The complete destruction of rats or mosquitoes on a vessel is no easy matter, and is never even attempted unless the ship is known to be in-In New York, Boston, and other ports, even those in the South, vessels are permitted to come to the wharf and discharge without reference to the vermin on board, though, of course, there is a possibility of a vessel carrying infected rats or insects even though there are no infected persons on board. It has been well said that "quarantine is a sieve not a dam." If the attempt is made to make it a dam the flood of commerce will surely break it. It is certainly unwise and unreasonable to place undue burdens upon commerce by water when the more dangerous rail traffic is entirely unrestricted. What is needed in this port is a prompt inspection of every foreign vessel and it makes no difference whether this is done at the wharf or in the stream. If no sickness is found, permission to enter is at once given. If sickness is found the Superintendent of Health has ample power to properly handle it.

CONTAGIOUS DISEASE HOSPITAL.

The contagious, or "city ward" of the Rhode Island Hospital was built by the city on the grounds of the Rhode Island Hospital, and was opened January 13, 1896. The ward is maintained by the Rhode Island Hospital, and the city pays \$15 per week for every patient sent to the hospital by this department. During the year there were removed to the hospital under my direction 105 cases, and the total expense to the city for caring for them was \$4,442.18.

The Rhode Island Hospital first began to receive patients with scarlet tever and diphtheria in 1891, and the following shows the number of cases admitted since that time, and also the number of deaths that occurred in the hospital. For 1902 this does not include the cases which developed in the general wards of the hospital or cases which were brought in from outside the city. There were five cases of diphtheria from outside the city treated in the hospital, and sixteen cases of diphtheria and four of scarlet fever which originated there.

	Scarle	FEVER.	Dipнi	THERIA.	Total	ŧ
YEAR.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Expense.
1891	6	0	4	1	10	\$486.43
1892	13	2	4	1	17	1,553.36
1893	20	1	5	1	25	1,267.77
1894	27	2	4	2	31	2,297.07
1895	37	0	27	3	64	3,614.78
1896	35	2	103	10	138	4,679.64
1897	22	2	57	6	79	4,924.35
1898	21	2	70	6	91	3,404.74
1899	40	2	47	3	93*	4,390.06
1900	49	1	87	10	157†	6,943.61
1901	37	2	115	20	153‡	5,039.58
1902	24	4	80	11	105§	4,442 18
Totals	331	20	603	74	963	\$43,043.57

*Meastes, 6.

‡Meastes, 1.

†Measles, 21. §Measles, 1.

INFECTIOUS DISEASES.

Typhoid Fever.

Of the typhoid fever reported in the city during the year, eighteen cases, of which seven died, were probably contracted outside of the city.

In thirteen instances there was more than one case in a house; in one house there were seven cases; in four houses, three cases; and in eight houses there were two cases in each. Of these twenty-two secondary cases it appeared from the time of attack that five were not due to infection from the first case. The remaining seventeen, including the six extra cases in one house, were very likely due to such direct contagion.

The State Board of Health offers to examine the blood of typhoid suspects by the Widal test, but of the 160 cases reported during the year only twenty-six were subjected to the test, twenty-one of which proved to be positive. In one instance the test was negative first and then positive. In four cases reported as typhoid only a single negative test was reported. There were also forty-one other negative tests reported to this department by the State Board of Health from cases not reckoned as typhoid.

It has recently been learned that typhoid fever is sometimes transmitted by oysters, and sometimes by celery, lettuce, etc. Oysters which have been in water badly polluted with sewage may take up the typhoid germs from the water, and thus be the means of causing the disease. Again it has been found that growing celery may be infected by means of nightsoil used as a fertilizer, and thus become the cause of an outbreak of typhoid fever. The source of the typhoid that occurs in this city is usually unknown; during the past year an effort has been made to see if any of it could be traced to the sources above referred to. But no evidence pointing to this was obtained. Of ninety of the patients who replied definitely as to whether they had eaten celery, lettuce, or other raw vegetables within two or three weeks of their attack, sixty-two replied in the negative, and twenty-eight in the affirmative, but in no case could any clue be found to a possible infection. Of ninety-two patients, nine confessed to eating raw oysters while eighty-three said they had not.

Diphtheria.

Besides the cases which were recorded as diphtheria, there were six cases of membranous croup and six of other forms of laryngitis, all resulting in death, which came to the knowledge of this department. It is probable that most of these cases were really diphtheria, and if reckoned would considerably increase the mortality from that disease. All of the cases of membranous croup were placarded with a membranous croup sign and were treated as if contagious. In none of these cases were any cultures taken.

There were reckoned as diphtheria 157 cases in 114 families in none of which diphtheria bacilli were found. Some of these were doubtless not diphtheria, but the attending physician reported them as diphtheria, and in 136 of the cases no culture was taken for diagnosis. In the other twenty-one cases cultures were taken which proved to be negative. In sixteen of these cases only one culture was taken, and in six of these death occurred before another culture could be taken. In two instances two negative cultures were obtained, and in one instance, three, in one instance four, and in one instance five negatives were taken. Of the 157 cases where no positive cultural results were obtained, thirty resulted fatally, and doubtless the serious condition of the patient and the positive character of the clinical symptoms were reasons for the failure of the physician to take a culture.

There were 43 other cases in which the physician did not consider it necessary to take a culture for diagnosis, but in these cases or in their families diphtheria bacilli were afterwards found. There were thus in all 179 cases of diphtheria in which the attending physician did not avail himself of the aid of bacteriology in

making his diagnosis. This was thirty-three per cent. of all cases. The year before, it was nineteen per cent.

There were in the families where diphtheria bacilli were found a number of persons who were sick with the symptoms of the disease, but yet in whom no diphtheria bacilli were found or were not found on the first examination. In one instance there were three successive negatives although there were other cases known to be diphtheria in the family, and under the same circumstances there were three instances in which two negatives were obtained, and fourteen instances where one negative only was obtained. No subsequent cultures were taken from the above cases, but they were all doubtless true diphtheria. There were also two instances in which two negatives were followed by a positive, and eleven instances in which a single negative was followed by a positive. All of the cultures referred to in this paragraph were for diagnosis and taken early in the disease.

In 1902 there were examined by the State, city and hospital laboratories 3,162 cultures. Of these 172 were taken for scientific purposes, and the remainder were taken in the ordinary course of department work. Eleven were from scarlet fever cases of which none were positive.

The following shows certain facts in the natural history of diphtheria:

18	89-90.	1891-95.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	Totals.
Number of families in										
which there was more										
than one child	233	574	433	326	161	107	194	310	299	2,637
Number of these in which there was more than one										
case	89	179	172	125	57	35	60	104	75	896
Number of children in all	00	110	11.2	120	٠.	00	00	101	•	0.00
the above families	894	1,614	1,690	1,262	642	458	756	1,138	1,113	9,567
Number of these children										
who were attacked	422	750	793	578	287	191	319	470	440	4,250
Number of additional										
families with children in the same house	97	329	323	254	119	79	131	215	224	1,771
Number of children in	91	329	323	204	119	19	101	210	224	1,,,,
these families	262	854	898	665	311	199	359	591	640	4,779
Number of these addi-										
tional families attacked.	18	24	30	9	11	2	5	17	10	126
Number of children in										
these families who were	0.5	20		0.0	10	-	0	99	1.4	100
attacked	25	28	55	26	12	7	6	23	14	196
which were disinfected										
where there were other										
families with children in										
the house,	23	108	192	188	82	59	80	124	155	1,011
Number of instances of										
the above where the										
disease spread to other families in the house	5	10	11	9	11	1	0	1	1	49
rammes in the house	3	10	11	ð	11	•	U	•	•	40

18	889-90.	1891-95.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	Totals.
Number of well children who were at once re-		۰								
moved Number of those who were	54	202	141	176	71	57	73	106	69	949
attacked on their re-	2	7	0	3	1	0	0	2	0	15

As in previous years the safety of other families in the infected house is shown to be very great. In only ten of 224 instances did the disease extend beyond the first family attacked. In five of these cases infection took place before the nature of the disease was recognized. In two cases it was after the card had been removed from the first case—in one a month after—and was quite as likely to have been contracted elsewhere. In one instance the cases in the two families were taken sick on the same day. This leaves only two instances out of 224 in which diphtheria spread from one family to another by careless communication after the house was placarded. There were also eleven children in six "other families in the house" with diphtheria, in whom diphtheria bacilli were found, although they were not sick. Infection in these cases also generally took place before the diagnosis was established. It has been abundantly proved in this city that except in a very small number of cases, the placarding of the house is sufficient to prevent intercourse with the infected family, and the spread of contagion to others in the same house.

It is the custom of this department not to exclude from school, children in the house, except those of the family in which the disease actually exists. If, however, it is believed that there will be no isolation, and there will possibly be a mingling of all the children in the house, they are all excluded. This, however, is not done in more than one-quarter of the cases. The children in the non-infected families are not generally allowed to go to school until a negative culture has been obtained from the throat. Of ninety-three children who were thus examined in 1902, fourteen showed the presence of diphtheria bacilli. During 1902 permits were given to seventy-three children living in thirty "infected houses," but not in infected families, to attend school. During the past seven years the figures are 421 children in 142 families. In none of these did the disease develop, which indicates that it is quite safe to permit children in the infected house, but not in the infected family, to attend school, except in those cases where manifestly no care is taken.

During the year sixty-nine well children were sent away from home to avoid the disease. Three were attacked within a day or two after leaving home, and four were after leaving home found to be infected with diphtheria bacilli though they were at no time sick. All seven were at once sent home. None of the other sixty-two children were attacked on their return home. Of eighty cases which went to the hospital, there was one instance where members of the family were attacked after the return of the patient. A man went to the hospital January 23d, after ten days' illness. He was discharged February 1st after two successive negative cultures from throat and nose. On February 22d an adult member of his family was taken sick with diphtheria, and on February 23d two other members. The infection may have remained with the first case, notwithstanding the two negative cultures, or it may have been latent in one or more of the family from none of whom cultures had been taken before their sickness.

Persons were removed to the hospital from forty-three families, in which there remained 104 children who were well at the time of removal. Of these, one was taken sick in two days, one in six days, and one in seven days after removal, and four others showed the presence of diphtheria bacilli several days afterwards, but were not sick.

For five years it had been the rule in this department to keep the warning sign on the house in cases of diphtheria until a negative culture had been obtained from the throat of every member of the family. On March 3, 1902, this rule was changed chiefly for two reasons:

First. It caused an immense amount of friction, and called forth much hostility to this department, both on the part of the infected family and the attending physician. To very many it seemed very unreasonable that a well person should be capable of causing sickness in others. When the bacilli remained in the throat for a considerable time the trouble greatly increased, and if a wage-earner happened to be thus confined when he felt perfectly able to go to his work, it became almost impossible to keep him at home. This requirement of the health department did not generally meet with the approval of the medical profession, and it seemed impossible to enforce it much longer.

Second. This requirement was the more willingly given up because, although it doubtless prevented the spread of the disease in a considerable number of cases, it did not entirely secure the desired end. A single culture from the throat is not enough to determine with sufficient accuracy the presence or absence of diphtheria bacilli. The margin of error is very considerable. Two successive negative cultures from both nose and throat have been shown by Dr. H. W. Hill, of Boston, to be necessary if one wishes to reduce the limit of error to one or two per cent. Of course this would result in a still longer isolation of well persons, and create more opposition than the method formerly pursued here. If it was impossible to require a single negative culture from the throat, it would certainly be impossible to require two negatives from both throat and nose. Yet the latter is necessary if we wish to be reasonably sure that a person is free from infection.

It may be asked why any isolation is attempted in diphtheria if a considerable

number of persons carrying diphtheria bacilli are at large, and likely to give the disease to others. One reason why it is advisible to isolate those who are actually sick with the disease is that such persons are probably producing very many more germs, of a very much more virulent character, than are well persons who have bacilli in their throats. The isolation of sick persons appears to the public to be a reasonable precaution, and they are willing to submit to it. In sanitary practice what is theoretically desirable can rarely be carried out to the letter. Sanitary rules must, on the whole, meet with public approval, and the isolation of the sick does. Moreover, experience has shown that the isolation of the sick, chiefly secured by placarding the house or removal to the hospital, does accomplish considerable in preventing the extension of the disease. We are as yet far from stamping out diphtheria, at least in cities, but the number of serious cases of this disease has certainly been reduced

At present the placard in diphtheria is kept up for ten days from the disappearance of the membrane, as certified to by the attending physician, on a postal card sent to him for that purpose. Children in the family are not allowed in school and are kept on the premises if possible. Wage-carners are, as a rule, allowed to remain at work. Teachers, letter carriers, waiters, etc., are usually required to go away from home or give up their work. As was stated above, restrictions are not, as a rule, put on other families in the house, except that in some cases the children are kept out of school. As it seems to be possible to prevent becoming infected even when mingling with diphtheria cases, and for a person who is infected to keep from infecting others, simple directions to secure these ends have been printed and are given to the adults in all diphtheria families. The following is the form used:

NOTICE.

TO MEMBERS OF THE FAMILY IN WHICH THERE IS DIPHTHERIA.

Keep away from the sick person as much as possible. If you do have to touch the patient, wash your hands at once.

Even with the best of care you are liable to get the germs in your nose or throat, although you may not be sick yourself.

Then, if you are not very careful, you may give the disease to others.

Take care of your spit. Don't spit on floor, on sidewalk, or any such place.

Don't drink out of a glass or cup that someone else is likely to use.

Don't put money, pencils, pins, etc., in your mouth.

Don't borrow or lend a pencil, pipe, or anything else that is put in the mouth.

Keep your fingers out of your mouth.

Don't kiss your own or other children.

The oftener you wash your face and hands, the less likely you are to carry the disease.

Always wash your hands the last thing before leaving the house.

During the five years that the throats of all members of diphtheria families were examined, a table was given showing the percentage of well persons in such families infected with diphtheria bacilli. As these routine examinations have now been given up that table is omitted from this report.

SCARLET FEVER.

The following table gives the results of my observations during the past sixteen years concerning certain points in the etiology and prevention of scarlet fever. This table for the years previous to 1892 does not include all the families and cases:

1887	7-90.	1891-95.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	Totals.
Number of families in										
which there was more										
than one susceptible										
	615	1,600	305	174	178	267	215	171	137	3,662
Number of these in which	0-0	-,								.,
there was a second case.	334	711	128	58	68	90	72	51	41	1,553
Number of susceptible	001	,,,,	120	00	00	00		0.		1,000
children in all the above										
families	270	5 571	1.032	644	655	992	758	573	519	13,007
Number of these children	,210	0,071	1,002	044	000	002	100	0.0	012	10,001
	10.1	9.025	526	318	322	477	401	259	208	6,640
who were attacked 1,	194	2,955	020	313	شين	411	401	200	200	0,040
Number of additional										
families with suscep-										
tible children in the	~=~	0.5	40	100	110	000	154	100	104	0.100
same house	273	817	197	132	. 113	206	174	122	104	2,138
Number of susceptible										
children in these fam-								0.10		* 0.40
ilies	799	2,259	545	340	295	628	412	310	230	5,818
Number of these addi-							_			
tional families attacked.	45	94	16	6	7	5	7	4	3	187
Number of children in										
these families who were										
attacked	81	157	41	9	12	9	14	5	3	331
Number of tenements dis-										
infected where there										
were other families with										
susceptible children in										
the house	119	374	139	86	84	137	115	84	79	1,217
Number of above where										
the disease spread to										
other families in the										
house	10	9	10	0	7	0	2	0	0	38
Number of susceptible										
children who were at										
once removed	60	374	174	106	82	134	76	83	49	1,138
Number of these who										
were attacked on their										
return	4	20	5	0	4	0	4	1	0	38
	_	0								

Number of children who were exposed and who had previously had	-95, 1896.	1897.	1898.	1599.	1900.	1901.	1802.	Totals.
scarlet fever 2	78 112	62	63	73	55	68	42	753
Number of these who were attacked a second								
time	40 20	3	12	10	4	4	6	99
Number of adults who were exposed and who								
had previously had scarlet fever 5	41 120	79	6.7	155	3.61.4	110	~.	1.050
Number of these who were	41 120	19	87	155	184	112	74	1,352
	10 1	0	1	0	3	1	1	17

Of forty-nine well children who were removed from their families, none were attacked on their return.

A child ten years old went to the hospital from 62 Crary street, September 9th, two days after the beginning of an attack of scarlet fever. He remained in the hospital till October 17th, or a little over five weeks from the date of attack, and at this time all desquamation had ceased. He then returned home. On November 2d another child in the family, aged seven years, was attacked with the disease.

Eighteen cases of scarlet fever were removed to the hospital from families in which were thirty-eight other children. Of the children left behind one was taken sick in one day, one in two days, and one in twelve days, and after that these families remained free from the disease.

SMALLPOX.

On Dec. 23, 1901, a case of smallpox was discovered in a lodging-house on South Main street, and the city was not again free from the disease until Sept. 23, 1902. The hospital was again opened for a case November 16th, and this patient died November 25th. There was also a case concerning which the diagnosis was doubtful, but which was finally believed to be smallpox, which did not go to the hospital and was pronounced cured December 13th. This was the last In all there were forty-eight cases that year, the largest number ease in 1902. which has occurred in any year since the extensive outbreak of 1873. years this disease has prevailed very extensively in the United States, and more extensively in New England in 1902 than in the preceding years. There were in Boston several hundred cases of the disease and many of our cases could be traced to that city. It also occurred in many other cities and towns of Massachusetts and Rhode Island. Most of the smallpox in this country has been of a very mild character, so mild that it has often been mistaken for other diseases, and the fatality has often been only one or two per cent., but in Boston the fatality in

1902 was about fourteen per cent. and this severer type of the disease was noticed in many other parts of New England. In Providence there were six deaths which gave a fatality of about twelve per cent. Probably the fatality in Boston, Providence, and other cities would have been less if the proportion of alcoholics attacked by the disease had not been so large. Many of our cases were exceedingly mild; some of them so mild that the diagnosis was not certain until the disease had run its course or another case had developed. In some of the cases there were not more than a dozen or twenty pustules and these not well developed. Although in these mild cases the patient often felt perfectly well after the eruption appeared, in every case but one the prodromal symptoms such as headache, backache, and fever, were well marked, the patient usually being incapacitated for work. The only exception was a case which, though reckoned as smallpox, was yet somewhat doubtful, and was believed by some who saw it to be chickenpox. It is also to be noted that several of these mild cases gave rise to a very severe type in others. In one instance the head of a family presented an exceedingly mild form of the disease. Three cases in his family contracted it from him; his wife was probably the mildest case we had, his brother's case was also mild, but there was considerable eruption which was entirely characteristic, the mother died of typical smallpox. It is the mild and not readily recognized cases which are the chief factor in the extension of the disease.

During the year 157 other cases were reported to the department as being possibly or probably smallpox. Most of these were seen at least once by two physicians, and many of them were seen several times. Thirty of them proved to be varicella, eighteen eczema, or some similar skin disease, fourteen acne, ten scabies, ten urticaria, nine impetigo, eight syphilis, five measles, three vaccinia, two each sudamina, insect bites and ivy poisoning, and one each, erysipelas, erythema, German measles, herpes, and rash due to indigestion. The other cases presented no eruption but were mostly some febrile attack in possible subjects. The Secretary of the State Board of Health has always been ready to assist in the diagnosis of smallpox in any part of the state, and as his office is in Providence, he has been frequently called on to see cases here, and his experience in smallpox, and his knowledge of skin disease has made his assistance in these cases of very great value.

On several occasions persons with smallpox had walked into the City Hall voluntarily or, in one case, had been sent in by a physician to have the diagnosis established. This was so disquieting to the officials in the building and to the public that a small building was placed on a vacant lot in the rear of the railroad station and the police provided with a key. It is furnished with a stove, bed, table, lamp, etc., and all told, cost less than \$150. It has been used three times for suspects.

Of the forty-nine cases of smallpox in 1902 the origin of six was absolutely unknown. A group of five connected cases occurred in a part of the city (India Point) where there had been smallpox a few weeks carlier, and it seemed likely that there had been one or more unrecognized cases in the interim. Another group of five cases occurred on P----- street. The first of these cases was in a house where there had been one or two eases of eruptive disease, the first of which was known to have been on a steamboat on which was a case of smallpox. These eases were not seen by department physicians, but the dates would permit of this being the source of the outbreak. Ten cases were connected with a jewelry manufactory. The source of this outbreak was unknown, but it was possibly connected with a young man who had had smallpox in the west about a month before. Three cases were traced to workmen on the India Point bridge, who came from Boston and died with the disease in East Providence. Three were in a family a member of which brought the disease from Everett, Mass. Six came from various places in Massachusetts, one each from New Hampshire, Virginia, Canada, Centreville, R. I., and Pawtucket, R. I. Five developed in lodging-houses from imported eases, and one in the Rhode Island Hospital from an imported ease. There were in all thirteen importations of the disease and probably several more. Seven eases occurred in lodging-houses.

Not counting lodging-houses, institutions, etc., there were in smallpox infected families 119 persons. Of these fifteen contracted the disease. Of the 119 there were thirty-two who had never been vaccinated, of these seven or about twenty-two per cent. contracted the disease. Of the eighty-seven vaccinated persons, eight, or about nine per cent., contracted the disease. Of these eight cases, one, a boy of ten, had been unsuccessfully vaccinated four years before; the others had been vaccinated respectively 20, 30, 30, 40, 40, 60, and 70 years before. Thirty-four of these other vaccinated persons in these families were evidently susceptible, for they were successfully revaccinated at this time. The other forty-five vaccinated persons were revaccinated unsuccessfully.

In sixteen cases I was very positive as to the exact time of exposure and to whom exposed. In fifteen cases the person who communicated the disease was in the papulae, vesicular or early pustular stage, and in one case only, in the stage of desquamation. One reason why more cases are not traced to the desquamation stage is doubtless due to the fact that comparatively few known cases are at large during this stage. Therefore the above figures cannot be considered as indicating that the early stages are more likely to communicate the disease than are the later stages, but merely are evidence that the early stages are dangerous.

Of the forty-eight cases of smallpox in 1902, twenty had never been vaccinated, twenty-four were adults who had only been vaccinated many years before in early life. In three the vaccinal history was uncertain, but they had probably

been vaccinated in infancy. One of these cases had been vaccinated several times unsuccessfully, and in 1894 he was vaccinated, it was said, successfully, but this was uncertain. These two cases were the only cases which occurred in persons in whom there was the slightest evidence of recent vaccination.

In disinfecting after smallpox more care is exercised than in other diseases. In all cases the personal clothing and bed clothing of the patient is either burned or sterilized with steam. In every case also corrosive sublimate is used on woodwork and furniture. Sometimes this is left to the householder and sometimes a woman is employed by this department to do it. In lodging-houses I have usually drenched the floor, benches, and woodwork with corrosive sublimate or 40 per cent. formalin by means of a garden spray. In the lodging-houses, the City Hall, steamer "Essex" and three or four doctor's offices no gaseous disinfection was employed. In twenty-one instances formalin was used, being sprayed upon sheets as well as on the floor. In nine instances sulphur was used. In no instance was there any recurrence of the disease, nor was any case of smallpox traced to infected goods of any kind.

It is my policy to at once move all cases of smallpox to the isolation hospital at Field's Point. This was, however, not done in three instances. In two instances the diagnosis was too uncertain and in the third the patient was too sick in my opinion to permit of removal. When the cases were treated at home, medical attendance was furnished by this department, but as the families were in comfortable circumstances, they were required to pay for their groceries and other supplies. It was deemed advisable to guard the house and three men were employed for this, in shifts of eight hours at \$2 per day. A little watch-house was provided heated by a kerosene stove. It is not known that any cases were contracted from these houses after isolation was established, but on account of the irksomeness of the isolation, all the families agreed that they would much prefer to go to the hospital.

The smallpox hospital at Field's Point is a homely affair, but affords very comfortable accommodations for from twelve to fourteen patients. It was very fortunate that our forty-eight cases came along so that the hospital was at no time full. The Field's Point property was purchased a part in 1825, and a part in 1833, as a quarantine station and was used exclusively as such for many years. For a long time past, however, the end of the point has been leased for shore resort purposes, and the lessee, until 1892, was required to act as quarantine sentinel. The city has also let many lots for summer cottages. The hospital lot now contains only three or four acres and most of this is planted by the lessee of the point. This encroachment on the proper uses of the hospital property should never have been permitted, and this use of the hospital lot itself resulted in the development of a case of smallpox among the employees at the point. This lot

should be reserved exclusively for hospital purposes. The hospital which was built in 1864, at first a rough unfinished frame, was plastered, plumbed, and otherwise modernized in 1892. Twice the lead pipe was stolen from the building since then. There had always been a poor water supply until 1900, when city water was put in. No other repairs had been made since 1892, but after the hospital was closed in the fall of 1902 the plumbing was well overhauled, the walls whitened, some new floors laid, a new range put in, and many minor repairs made and electric lights installed.

In the case of "contacts" or "suspects," persons who have been exposed to smallpox, it has never been my policy to insist upon the restrictions that are placed upon them in many cities. As a rule, wage-earners are allowed to continue at work and are seen daily near the time they are likely to come down with the disease. This observation is kept up for seventeen or eighteen days. Children in the families where cases have occurred are kept out of school and are not, as a rule, allowed outside of their home yard. Of course every one in the family is always vaccinated as soon as the case is discovered.

THE TEACHING OF CLEANLINESS.

In my last report was printed a circular to teachers, calling their attention to the advisability of teaching personal cleanliness to their pupils as a means of preventing the spread of communicable disease. A similar circular was sent out this year, and also small slips of directions, one of which was given to every pupil in the public and parochial schools. The slip for the pupils is shown below:

REMEMBER THESE THINGS.

Do not spit. Never spit on a slate, floor, or sidewalk.

Do not put the fingers into the mouth.

Do not pick the nose or wipe the nose on the hand or sleeve.

Do not wet the finger in the mouth when turning the leaves of books.

Do not put peneils into the mouth or wet them with the lips.

Do not put money into the mouth.

Do not put pins into the mouth.

Do not put anything into the mouth except food and drink.

Do not swap apple cores, eandy, chewing gum, half eaten food, whistles or bean blowers, or anything that is put in the mouth.

Never cough or sneeze in a persons' face. Turn your face to one side.

Keep your face and hands clean; wash the hands with soap and water before each meal.

PROVIDENCE, December, 1902.

POPULATION.

Censu	s, June 1, 1890	132,146
	Jan. 1, 1893	148,944
"	June 1, 1895	145,472
44	June 1, 1900	175,597
Estim	ated July 1, 1902	181,000

AREA.

18.29 square miles.

ASSESSED VALUATION.

	1901.	1902.
Real estate	\$151,533,940.00	\$154,711,860.00
Personal estate	41,267,920.00	43,161,140.00
	\$192,801,860.00	\$197,873,000.00
Total amount of all tax	$3,\!084,\!829.76$	3,165,968.00

STREETS.

	1901.		1902.	
Paved	32.39 m	iles.	32.52 n	niles.
Curbed and built, but not paved	156.96	"	159.57	44
Built, but not curbed	30.22	"	29.27	"
Received, but not built	13.28	"	14.31	
Total	232.85		235.67	4.6

WATERS AND SEWERS.

Miles of water pipes	330.639*	335.755*
Number of service pipes in use	22,186	22,758
Number of meters in use	18,544	19,216
Average daily consumption of water	10,734,700 gals.	11,563,414 gals.
Miles of sewers	184,666	190,440
Number of sewer connections	16,277	16,832

- 1. Scituate.
- 2 Alberto E. Wood, health officer.

^{*}Besides 5.69 for fire purposes.

- 3. The only contagious diseases reported during the year was one case each of diphtheria and small-pox.
 - 4. Isolation was not maintained.
 - 5. None of the sick were isolated.
 - 6. No inspections of premises where sickness prevailed were made.
 - 7. One inspection of a privy vault in Rockland village was made
- Public nuisances and unsanitary premises are not reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. Allen Barber, A. L. Wood, and William F. Angell, of North Scituate, and
- R. B. Rounds, of Rockland, are the ice dealers of this town.
 - 1. SMITHFIELD. No report from the health officer.
 - 1. Woonsocket. No report from the health officer.

WASHINGTON COUNTY.

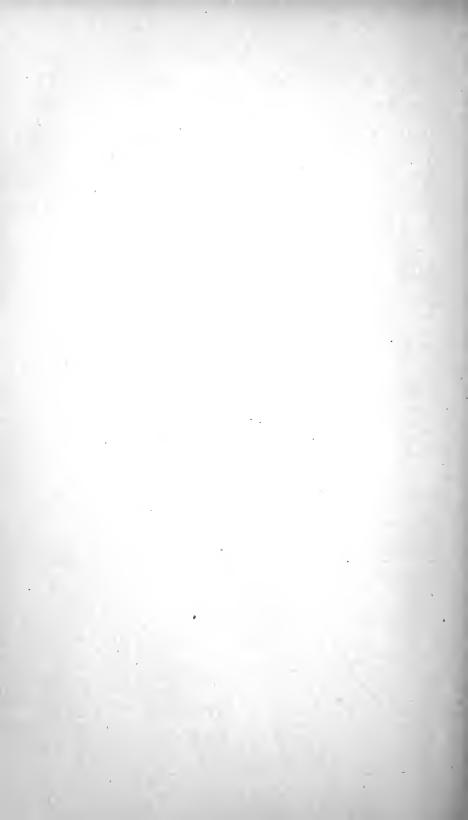
- 1. Charlestown.
- 2. Milton Duckworth, M. D., health officer.
- 3. There were no epidemics in this town during the year.
- 4. Isolation was maintained.
- 5. All of the sick were isolated.
- 6. Inspections of premises where sickness prevailed were made, and sanitary conditions found to be fairly good.
 - 8. No unhealthy localities in this town are known.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
 - 11. John C. Tucker of Carolina is the ice dealer of this town.

EXETER has no health officer.

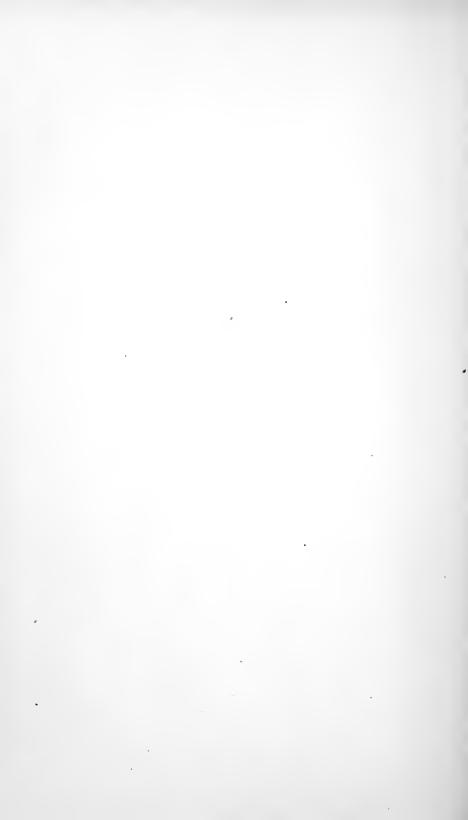
- 1. Hopkinton.
- 2. H. H. Crandall, health officer.
- 3. Measles was quite prevalent during the months of October and November, there being 83 cases, none of which were fatal, however.

- 4. Isolation was not considered necessary.
- 5. None of the sick were isolated.
- 6. Inspections of premises where siekness prevailed were made, and sanitary conditions in the village of Ashaway, where the outbreak occurred, were found to be good.
 - 7. No sanitary inspections were made during the year.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
- 11. S. R. Avery & Company and W. R. Clarke, of Hope Valley, are the ice dealers of this town.
 - 1. Narragansett. No report from the health officer.
 - 1. North Kingstown.
 - 2. Harold Metcalf, M. D., health officer.
- 3. Only a few isolated cases of contagious or infectious disease, including two of varioloid, were reported during the year.
 - 4. Isolation was maintained.
 - 5. All of the sick were isolated.
- 6. Inspections of premises where sickness prevailed were made and in some of the villages the sanitary conditions were bad.
- 7. From my own option I made sanitary inspections of premises where I was called to attend patients.
 - 8. No unhealthy localities in this town are known.
- All public nuisances and unsanitary premises are reported to the town council.
- 10. There has been, to my knowledge, no contamination of the water, milk or ice supplies of this town.
- 11. James A. Brayman and the Orpin Ice Company, of Wickford, John Maglone, of Allenton, and Rose & Artist, of Saunderstown, are the ice dealers of this town.
 - 1. RICHMOND.
 - 2. Charles A. Fuller, health officer.

- 8. I know of no unhealthy locality in this town.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 11. S. R. Avery & Company and W. R. Clarke, of Hope Valley, are the ice dealers of this town.
 - 1. South Kingstown.
 - 2. Daniel T. Carr, health officer.
- 3. There were no epidemics in this town during the year. There were fifteen cases of typhoid fever, one of which was fatal, reported.
 - 4. Isolation was not maintained.
 - 5. None of the sick were isolated.
- 6. Inspections of premises where sickness prevailed were made, but no cause for outbreak of disease could be found.
- Sanitary inspections of several sink-drains and cess-pools were made, and same were ordered cleaned.
 - 8. No unhealthy localities in this town are known.
- 9. All public nuisances, unsanitary premises, etc., are reported to the town council.
- 10 There has been, to my knowledge, no contamination of the water, milk, or ice supplies of this town.
- 11. George F. Priday and George A. Griffin, of Wakefield, and Asa Sweet, of Kingston, are the ice dealers of this town.
 - 1. Westerly. No report from the health officer.



WATER SUPPLIES.



EXAMINATION OF WATER SUPPLIES.

Since 1894 the Board has made monthly analyses of the water supply of the city of Providence, taken from the Pawtuxet river.

The samples have been taken at three different points: At the Pettaconset pumping station; at Washington village, on the south branch, at a point above any known source of contamination; and at the village of Hope, on the north branch of the river, above any possible source of contamination from villages, residences, or manufacturers.

These reports have been of considerable service in determining the quality of the supply at various points, and permitting of conparison as to their value and the possibility of pollution at any point between the sources of supply and the intake.

At a time when the question as to the necessity of filtering the supply before serving it to the city arose, a proposal that it might be more desirable to take the supply direct from the reservoirs to be constructed on one of the branches of the river above possible sources of pollution was presented. By reference to the published results of these examinations, it was determined that a vast amount of contamination entered the water between the two upper branches and the intake or pumping station. This arises largely from the surface drainage from fields and villages along the stream, and from the large amount of sediment which has accumulated in the bed of the river.

While the stream is running evenly the sediment is caught in the various reservoirs at the dams connected with the various industries along the banks of the stream. As soon as a mill starts up a rush of water follows, stirring up and carrying along the sediment which

was lying in the shallow stream. This mixture is received at the pumping station, giving a polluted water.

Owing to the distance of the heads of the river, however, and to the probable excessive cost of acquiring control of the water-shed, the proposition of obtaining a supply from the upper branches was left in abeyance.

An examination of this water supply has been made by the engineer's department of the city of Providence for many years, one sample being taken on the first and fifteenth of every month. All of the above examinations since 1894 will be found in detail by months in the previous reports of the Board. The average of the several years will be found in this report in conjunction with the monthly reports.

While the supply of the city of Providence is the largest and most important of any in the State, inasmuch as it supplies the largest population, it was believed by the Board that it was equally important that all potable public water supplies in the State should be examined periodically, first to determine their fitness for a drinking-water, and, second, to be posted as to any change which might take place in the character of the water at any time and especially in the presence of an epidemic of any water-borne disease, as the Board would be in a position to determine if any deterioration in the character of the water had occurred at the time and if it might have any influence in the production of the epidemic.

Accordingly, since 1900, chemical and bacteriological examinations of all the public water supplies have been made monthly.

These were found to vary in quality from what might be considered as perfect, to a condition which indicated that the continued use of the water would be dangerous to the health of the consumers.

The information thus obtained indicated the necessity of one supply receiving immediate attention, and purification of this supply was secured by means of mechanical filtration. The studies of this process have been available for the installation of filter plants using this form of filtration. It has been successful and manageable, while

the expense of running has been somewhat less than had been anticipated.

In only four instances are the supplies owned by the cities where the water is used; namely, the city of Providence, the city of Pawtucket, the city of Woonsocket, and the town of Westerly. In the Pawtuxet Valley there are four public water supplies. These are operated by private water companies. The water-sheds of all four are practically free from possible contamination or pollution, being free from habitations and industrial plants. They are called the East Greenwich Water Company, the Pawtuxet Valley Water Company, the Coventry Water Company, and one known as Knight's Spring.

The results of the analyses of this group will be found in the following tables, and indicate that they are practically of very good quality for surface supplies.

The supply at Block Island is taken from a pond which receives a certain amount of surface flow. The water-shed is free from habitation. The pond is supposed to be fed also from springs. The quality is fairly good, though, like most of the waters in the State which are held in storage for a period of time, liable to be infected with algae growths of different forms which at times produce a disagreeable odor and taste to the drinking-water.

The supply of Woonsocket is received from a large water-shed which is owned or controlled by the city. The shed is closely watched and inspected. Practically no habitations are located on the area.

The supply, while a sanitary water as far as chemical and bacteriological analyses shows, is good, but the source, being a surface supply and the storage being in contact with organic and earthy matter, the water has quite a high color and a slightly vegetable or woody taste. This can be corrected only by filtration.

The city of Newport derives its supply from two or three streams which run through a rather level water-shed, the area of which is fairly well inhabited, and in some instances the streams have been utilized as a drainage disposal system for individual residences.

The color of the water is not very high and the taste not of a potable standard. The organic matter is variable with the season.

The town of Jamestown is supplied from two different sources, one called the South Station, and the other located further up the Island of Conanicut and called the North Station. The former supplies a white water, while the latter is darker and does not show as pure a quality when examined chemically and bacteriologically.

The supply at Wakefield and Narragansett Pier is derived from a flat water-shed, not thickly inhabited, but is impounded in reservoirs where much coloring matter is taken up from the decay of vegetable matter such as stumps, trees, and leaves. The only means of securing a white potable water with this supply would be by the use of filtration. Owing to the small consumption, such expense at the present time might not be warranted.

The Bristol Water Works, supplying the towns of Bristol and Warren, derives its supply from surface flow and impounding in two reservoirs. The upper one, being flooded over stumps and decaying vegetable matter, delivers considerable decomposed organic matter to the lower reservoir.

The accumulation of this material for many years in the lower reservoir has produced a condition whereby the water held in storage in the upper reservoir may become increased in color and in all organic constituents after passing through the lower reservoir and before being pumped into the mains.

The location of the lower reservoir was an area which was previously flooded by the tidal salt water from Mount Hope bay. The dam for holding back the fresh water is so near to the high-water line that at high tides the salt water may exchange its saline quarters from the outside into the storage reservoir above the dam.

With an extremely high tide and a south wind the salt water from without may at times overcome the baffle-boards or flap-gates of the dam and the water in the lower reservoir becomes saturated with chlorine, and the resulting analyses must necessarily at times be freaky with the variations in the tide and weather conditions.

The color is extremely high. The taste is musty and not entic-

ing to the average person who drinks water for his natural food or condiment.

Spasmodic attempts have been made from time to time to rectify these conditions, but owing to a difference of opinion between the private owners of the supply and the town as to the value of the whole plant, and water company business, naturally no attempt would be made to rectify the character of the water. It is to be hoped that, after the legal masters to whom the business status has been referred make their report, a satisfactory agreement may be arrived at.

The periodical examination of these water supplies gives valuable working data to the Board in the presence of the prevalence of any water-borne or communicable disease.

While typhoid fever and cholera are the only two diseases which are considered as water-borne at the present time, the periodical examination of these supplies gives data to the Board which can be acted upon promptly to the advantage of any town or city which has been afflicted.

If the causation of an epidemie is directly traced to a water supply, the records of the results of the chemical and bacteriological tests allow of certain deductions of exclusion or possible inclusion as a causative factor, thus permitting of immediate determination and also more earnest effort in other directions to determine a possible source of infection.

The following tables present the results of the periodical analyses of the different supplies.

The results are given by months, also by yearly averages and in groups where the supplies come from the same neighborhood or where there are samples taken at different points in the course of the flow of the supply.

The figures in the following tables given as the averages for the residue on evaporation, hardness, and alkalinity determinations are to the nearest .05 part per 100,000, that being the accuracy of the methods used for these determinations.

Providence Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Pawtuxet River, at Pumping Station at Pettaconset, collected during the second and fourth week of the month.

(Parts in 100,000.)

	Аррг	EARAN	CE.	ON	Esidu Eva atio	PO-		Аммо	ONIA.				TRO- EN.				
DATE OF					· .			Alb	umino	id.				red.			c.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 9	sl.	sl.	. 43	4.55	2.00	2.55	.0032	.0168	.0154	.0014	. 36	. 016	0	.73	1.11	.35	762
Jan. 23	**	dist.	. 36	4.40	1.75	2.65	.0042	.0180	.0146	.0034	. 37	.012	trace.	.68	.71	.38	25544
Monthly avg	**	dist.	.40	4.48	1.88	2.60	.0037	.0174	.0150	.0024	. 37	.014	**	.71	.91	.37	13153
Feb. 6	dist.	sl.	. 32	4.95	1.80	3.15	.0022	.0188	.0176	.0012	. 39	.016	0	.67	1.11	.50	1426
Feb. 21	**	dist.	.25	5.05	1.30	3.75	.0028	.0158	.0130	.0028	. 40	.016	.0010	.51	1.11	.45	1529
Monthly avg	**		.29	5.00	1.55	3.45	.0025	.0173	.0153	. 0020	. 10	.016	.0005	. 59	1.11	.48	1478
Mar. 6	sl.	sl.	.27	3.10	1.20	1.90	.0022	.0146	.0138	.0008	. 19	.013	0	. 55	.71	.37	3348
Mar. 20	v. sl.		. 30	3.90	1.50	2-40	.0008	.0146	.0142	.0004	. 27	.010	0	. 50	.63	. 35	407
Monthly avg	sl.	**	. 29	3.50	1.35	2.15	.0015	.0146	.0140	.0006	.23	.012	0	. 53	.67	.36	1878
April 10	sl.	sl.	.41	3.85	1.65	2.20	.0018	.0164	.0152	.0012	. 24	.010	trace.	.63	.63	.51	987
April 24		"	.40	3.95	1.35	2.60	.0004	.0192	.0174	.0018	. 35	.015	.0002	. 62	.95	. 59	1338
Monthly avg		"	.41	3.90	1.50	2.40	.0011	.0178	.0163	.0015	. 30	.013	.0001	.63	.79	. 55	1163

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Pawtuxet River, at Pumping Station at Pettaconset, collected during the second and fourth week of the month.—Continued.

	_							00,000		-							
	Арр	EARAN	CE.	ON	Esid Eva	PO-		Аммо	ONIA.				TRO-				
DATE OF					-			All	umine	oid.				red.			
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
May 8	dec.	sl.	.41	4.75	1.45	3.30	.0012	.0232	.0202	.0030	.38	.015	.0012	. 65	1.27	. 59	1035-
May 22	dist.	4.4	41	4.95	1.95	3.00	.0012	.0234	.0190	.0044	.41	.014	trace.	, 56	1.27	. 61	20832
Monthly avg	dec.	**	. 41	4.85	1.70	3.15	.0012	0233	.0196	.0037	. 40	.015	.0006	.61	1.27	. 60	15593
June 5	sl.	sl.	45	4 20	1.30	2.90	.0022	.0254	.0202	.0052	.41	.010	0	.58	1 35	.81	
June 19	4.6	14	.46	4 65	1.60	3.05	.0030	.0240	.0206	.0034	.42	.012	.0002	. 49	1.63	1.00	11594
Monthly avg	4.6	**	.46	4.43	1.45	2.98	.0026	.0247	.0204	.0043	.42	.011	.0001	.54	1.49	.91	
July 10	sl.	sl.	. 41	4 40	1.80	2.60	.0012	.0194	.0162	.0032	. 35	.011	trace.	40	.95	.80	3410
July 24	**	**	.40	4.45	1.55	2.90	.0036	.0238	.0218	.0020	.30	.013	0	.52	.95	.78	7750
Monthly avg	**	**	.41	4.43	1.68	2.75	.0024	.0216	0190	.0026	. 33	.012	trace.	46	.95	79	5580
Aug. 7	sl.	sl.	.42	5.30	1.90	3 40	.0018	.0284	.0240	.0044	.32	007	trace.	.57	1.27	.71	Last
Aug. 28	v. sl.		. 35	5.80	1.75	4.05	.0024	.0214	.0196	0018	40	010	0	.51	1 43	.90	108
Monthly avg	sl.	4.4	. 39	5.55	1.83	3.72	.0021	.0249	0218	0031	. 36	009	trace.	. 54	1 35	.81	

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the Pawtuxet River, at Pumping Station at Pettaconset, collected during the second and fourth week of the month.—Concluded.

						(Pa	rts in I	00,000	.)								
	Аррі	EARANG	Œ.	ON	ESIDI EVA	PO-		Аммо	NIA.				rro- en.				
DATE OF					_		574-74	Alb	umino	id.				ed.			ů
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free,	Fotal.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Sept. 11	v. sl.	dist.	. 37	5.20	1.30	3.90	.0038	.0292	.0232	.0060	.42	.007	.0002	.49	1.02		1787
Sept. 25	sl.	sl.	. 35	5.60	1.45	4.15	.0036	.0264	.0188	.0076	.47	.007	.0002	.46	1.50		23002
Monthly avg		dist.	. 36	5.40	1.38	4.02	.0037	.0278	.0210	.0068	. 45	.007	.0002	.48	1.26		12395
Oet. 9	sl.	dist.	.49	5.80	2.05	3.75	.0022	.0276	.0212	.0064	.44	.005	.0002	.68	1.35	.80	10268
Oct. 23	dist.	dec.	.52	7.20	2.55	4.65	.0010	.0304	.0226	.0078	. 54	.008	trace.	.76	1.63	.71	3019
Monthly avg	"	"	.51	6.50	2.30	4.20	.0016	.0290	.0219	.0071	.49	. 007	.0001	.72	1.49	.76	6644
Nov. 6	sl.	dec.	. 60	6.70	2.50	4 20	.0012	.0280	.0238	.0042	. 52	.013	. 0006	.88	1.43	.71	3720
Nov. 20	dist.	**	.56	6.50	2.35	4.15	.0020	.0328	.0242	.0086	. 52	.011	.0002	.85	1.63	.83	7204
Monthly avg	**		.59	6.60	2.43	4.17	.0016	.0304	.0240	.0064	. 52	.012	.0004	.87	1.53	.77	5462
Dec. 4	dist.	dec.	.65	6.83	2.20	4.65	.0020	.0286	.0260	.0026	.49	.020	.0004	.84	1.43	.81	2790
Dec. 18	sì.	4.4	. 52	4.80	1.80	3.00	.0022	.0258	.0176	.0082	.29	.013	trace.	.83	.74	.50	5084
Monthly avg	dist.	6.4	.57	5.83	2.00	3.83	.0021	.0272	.0218	.0054	. 39	.017	.0002	.84	1.09	. 66	3937
Yearly avg	sl.	sl.	. 42	5.0	1.7	3.30	.0022	.0230	.0192	.0038	. 39	.012	.0002	.62	1.15	.65	6650

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the South Branch of the Powtuxet River at Washington, above all sources of pollution, collected during the second and fourth week of the month.

	App	EARAN	CE.	0.8	ESIDI EVA ATIO	PO=		Аммо	NIA.				rro-				
DATE OF								Alb	umino	id.				ed.			-1
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Jan. 9	v. sl.	sl.	pink .77	4.05	1.95	2.10	.0032	.0198	.0175	.0920	.37	,006	.0052	.90	.56	.28	569
Jan. 23	**	v. sl.	. 40	3.50	1.40	2.10	.0020	.0120	.0116	.0004	. 27	.007	0	, 55	. 55	.35	763
Monthly avg	4.6	sl.	. 59	3 78	1.68	2 10	.0026	.0159	.0147	.0012.	. 32	.007	.0026	.73	.56	. 32	667
Feb 6	v. sl.	v. sl.	. 35	3.30	1,40	1.90	.0010	.0112	0112	.0000	. 32	.005	0	54	40	.37	220
Feb. 20			.20	3,50	1.15	2.35	.0008	.0104	.0094	.0010	. 30	.006	0	. 43	.45	. 35	87
Monthly avg	**	**	.32	3 40	1.28	2.12	.0009	.0108	.0103	.0005	. 31	,006	0	. 49	44	. 36	154
Mar. 6	v. sl.	v. sl.	.23	2.75	. 65	2.10	.0006	.0142	.0114	.0028	. 19	.007	0	. 40	.40	. 22	5084
Mar. 20	**		. 30	2,90	1.30	1.60	.0004	.0124	.0124	.0000	.21	.006	0	.44	. 24	.24	75
Monthly avg	**	**	.27	2.83	.98	1.85	.0005	0133	.0119	0014	. 20	007	0	, 42	.32	.23	2580
April 10	v. sl.	v. sl.	45	2.90	1.15	1.75	.0006	.0140	.0136	.0004	.24	005	0	.58	. 32	.36	153
April 24	**		. 36	2 90	1.50	1.40	.0008	_0160	.0152	0008	. 25	.008	0	.52	.48	.32	127
Monthly avg			41	2 90	1.33	1.57	.0007	0150	.0144	0006	25	.007	0	. 55	.40	.34	140

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the South Branch of the Pawtuxet River at Washington, above all sources of pollution, collected during the second and fourth week of the month.—Continued.

				-	-						_						
	App	EARANG	CE.	ON	EVA ATIO	PO-		Амм	ONIA.				TRO-				
DATE OF					نہ			Alb	umino	id.				ed.			ೆ
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
May 8	v. sl.	v. sl.	.43	2.50	1.25	1.25	.0010	.0174	.0170	. 0004	. 30	.005	0	.65	. 56	.39	180
May 22	44	sl.	.40	3 20	1.25	1.95	.0020	.0160	.0140	.0020	. 3 6	.003	0	. 51	. 79	.60	190
Monthly avg		44	.42	2.85	1.25	1.60	.0015	.0167	.0155	.0012	. 33	.004	0	.58	.68	. 50	185
June 5	v. sl.	v. sl.	. 50	3.40	1.60	1.80	.0024	.0196	.0194	.0002	. 29	.002	0	.61	.63	.41	578
June 19	**	44	.42	3.10	1.30	1.80	.0016	.0186	.0182	.0004	. 31	.006	0	. 52	.40	.48	401
Monthly avg	"		.46	3.25	1.45	1.80	.0020	.0191	.0188	.0003	. 30	.004	0	.57	.52	.45	490
July 10	v. sl.	v. sl.	.45	3.65	1.45	2.20	.0012	.0192	.0188	.0004	.26	.002	0	.47	.48	.45	4526
June 24		sl.	.40	3.25	1.20	2.05	.0016	.0198	.0188	.0010	.24	.004	0	. 49	. 55	.30	148
Monthly avg	**	"	.43	3.45	1.33	2.12	.0014	.0195	.0188	. 0007	.25	.003	0	.48	.52	.38	2337
Aug. 7	v. sl.	v. sl.	.42	3.90	1.60	2.30	.0016	.0206	.0194	.0012	.22	.003	0	. 52	.48	.45	L. st.
Aug. 28	**	**	.36	3.80	1.00	2.80	.0012	.0176	.0168	.0008	.25	.004	0	.48	.40	.32	69
Monthly avg	**	"	. 39	3.85	1.30	2.55	.0014	.0191	.0181	.0010	.24	. 004	0	. 50	.44	.39	

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the South Branch of the Partuxet River at Washington, above all sources of pollution, collected during the second and fourth week of the month—Concluded.

	Арр	EARAN	CE.	ox	ESID EVA ATIO	PO-		Аммо	ONIA.				TRO- EN.				
DATE OF					011.			Albu	uninoi					med.		1	÷.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine,	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness,	Alkalinity.	Bacteria per c. c.
Sept. 11	v. sl.	v. sl.	. 35	3.35	1.05	2.30	.0008	.0202	.0198	.0004	. 23	.004	0	. 39	.63	. 55	131
Sept. 25			. 35	3.60	1.45	2.15	.0022	.0178	.0166	.0012	.25	.006	0	. 10	.45	.40	22
Monthly avg	**	44	. 35	3.45	1.25	2.23	.0015	.0190	.0182	.0008	.26	.005	0	. 40	.56	45	150
Oet. 9,	v. sl.	v. sl.	.47	3.90	2.05	1.85	.0038	.0204	.0198	.0006	28	.003	0	.59	. 63	49	61
Oct, 23			. 54	4 80	2.00	2.80	.0060	.0220	.0212	.0008	. 35	.005	0	. 69	. 63	49	76
Monthly avg	**		.51	4.35	2.03	2.32	.0049	.0212	.0205	.0007	. 32	.004	0	.64	. 63	.49	69
Nov. 6	v. sl.	v. sl.	. 55	3.95	1 20	2.75	0020	.0180	.0174	.0006	. 36	.005	0	69	63	52	90
Nov. 20	sl.		.60	4.60	2.05	2.55	-0034	.0190	.0182	.0008	. 36	.004	0	.72	63	.41	155
Monthly avg			.59	4 28	1 63	2.65	.0027	.0185	.0178	.0007	36	.005	0	.71	63	47	124
Dec. 4	v. sl.	v. sl.	. 46	4.25	1.45	2.80	0042	.0186	0182	0004	.31	.010	0	. 50	45	.40	165
Dec. 18,	**		.44	3.90	1 45	2 45	.0040	.0110	0138	0002	.28	008	0	.56	55	55	469
Monthly avg			. 45	4.08	1 45	2.63	0041	.0163	0160	. (XXX)3	30	()()()	0	. 53	52	45	316
Yearly avg	v. sl.	v. sl.	.43	3.55	1.40	2.15	.0020	.0170	0162	0008	28	-005	.0002*	.55	50	40	633

^{*} All determinations 0 except one.

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the North Branch of the Pawtuxet River at Hope, above all sources of pollution, collected during the second and fourth week of the month.

	Аррі	SARANG	E.	OR	ESIDU EVA	PO-		Аммо	ONIA.				ro- en.				
DATE OF					i			All	umino	id.				ned.			c.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 9	trace	v. sl.	. 30	3.35	1.25	2.10	.0014	.0152			.25	.010	0	.45	.48	.45	222
Jan. 23	v. sl.	**	. 35	2.65	.85	1.80	.0020	.0130	.0124	.0006	.29	.010	0	. 59	.48	. 23	5828
Monthly avg	"		. 33	3.00	1.05	1.95	.0017	.0141			.27	.010	0	.52	. 44	.34	3025
Feb. 6	v, sl.	trace	. 26	2.90	1.35	1.55	.0006	.0086	.0086	. 0000	. 25	.005	0	.44	.48	.35	435
Feb. 20	"	v. sl.	.25	3.55	1.30	2.25	.0008	.0100	.0096	.0004	.28	.010	0	.39	.48	.35	103
Monthly avg	"		. 26	3.23	1.33	1.90	.0007	.0093	.0091	.0002	.27	.008	0	.42	.48	.35	269
Mar. 6	v. sl.	sl.	.30	2.70	1.15	1.55	.0014	,0154	.0136	.0018	. 14	.005	0	.50	. 32	.21	4774
Mar. 20	4.6	v.,sl.	. 29	2.50	1.05	1.45	.0006	.0114	.0108	.0006	.23	.005	0	.43	. 32	.22	338
Monthly avg		sl.	.30	2.60	1.10	1.50	.0010	.0134	.0122	.0012	. 19	.005	0	.47	. 32	.22	2556
April 10	v. sl.	v. sl.	.40	2.80	1.00	1.80	.0008	.0132	.0130	.0002	.22	.005	0	. 60	. 32	. 39	511
April 24	"		.28	3.20	1.50	1.70	.0008	.0134	.0124	.0010	.23	.007	0	.43	.48	.41	274
Monthly avg		"	. 34	3.00	1.25	1.75	.0008	.0133	.0127	.0006	. 23	.006	0	.52	.40	.40	423

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the North Branch of the Pawtuxet River at Hope, above all sources of pollution, collected during the second and fourth week of the month.—Continued.

			_			Crart	s m 10	0,000.)								
	Арр	EARAN	CE.	ON	ESID EV.	APO=		Амм	ONIA,				rro- en.				
DATE OF								AH.	umino	id.				ed.			
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
May 8	v. sl.	v. sl.	. 35	3.35	1 40	1.95	0016	.0158	.0140	.0018	.26	.007	0	. 53	. 63	. 39	258
May 22		**	.46	4 10	1 20	2.90	0005	.0168	0160	.0008	.30	.003	0	.59	.48	.42	523
Monthly avg		,"	.41	3.73	1 30	2.43	-0012	.0163	0150	0013	28	005	0	. 56	.56	.41	391
June 5	v. sl.	v. sl.	. 45	3.35	1 35	2 00	.0014	,0206	.0196	.0010	.26	.002	0	.58	.79	. 51	1634
June 19	**		, 40	3.25	1.10	2 15	.0010	0188	.0182	.0006	28	.008	0	49	. 63	. 59	614
Monthly avg	**		.43	3 30	1.23	2 07	.0012	0197	.0189	.0008	. 27	005	0	. 54	.71	. 55	1124
July 10	sl.	sl.	.41	3 45	£.50	1.95	.0008	0170	.0158	.0012	. 22	100.	0	.41	.48	45	6200
July 24	v. sl.	٠.	.47	3 80	1.35	2.45	.0018	0228	.0196	0032	. 21	015	0	. 60	63	41	642
Monthly avg	sl.	* *	.44	3 63	1 13	2 20	.0013	0199	.0177	0022	.00	.010	0	. 52	56	43	3421
Aug. 7	v. sl.	v. sl.	.54	4 25	2 15	2 10	0010	.0198	0196	.0002	. 19	005	0	.68	.55	50	Lost.
Aug. 28	**	4.4	.33	3 75	1 05	2 70	0010	.0158	0148	0010	19	005	0	-49	.56	.51	52
Monthly avg	**	••	14	1 00	1 60	2 40	0010	.0178	0172	0006	19	005	0	.59	-56	51	

Chemical and Baeteriological Examination of the Water Supply of the City of Providence, taken from the North Branch of the Pawtuxet River at Hope, above all sources of pollution, collected during the second and fourth week of the month.—Concluded.

						(Pa	arts in	100,00)0.)								
	Аррі	EARANG	Œ.	ON	EVA ATIO	PO-		Амм	ONIA.				TRO- EN.				
Date of					٦.			Alb	umino	id.				ned.			ಲೆ
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Sept. 11	v. sl.	v. sl.	. 36	3.35	1.25	2.10	.0008	,0184	.0174	.0010	20	.004	0	. 44	.63	. 50	146
Sept. 25			. 34	3 30	1.40	1.90	.0006	.0168	.0166	-0002	. 17	.005	0	. 44	. 56	. 40	202
Monthly avg	6.4		. 35	3.33	1.33	2.00	.0007	.0176	.0170	.0006	. 19	.005	0	. 44	. 60	.45	. 174
Oct. 9	v. sl.	v. sl.	. 55	4.45	1.70	2.75	.0010	.0212	.0208	.0004	. 32	.001	0	.72	.79	.48	138
Oct. 23	4.1		. 51	4.70	2.10	2.60	.0010	.0204	.0198	.0006	. 32	.005	0	. 69	.79	.50	115
Monthly avg	4.6		.53	4.58	1.90	2.68	.0010	.0208	.0203	.0005	. 32	.003	0	.71	.79	.49	127
Nov. 6	v. sl.	v. sl.	. 65	4.05	1-65	2.40	.0012	.0178	.0170	.0008	.38	.008	0	.88	.79	. 55	836
Nov. 20	sl.		54	4.10	1.65	2.45	.0020	.0172	:0156	.0016	. 33	.006	0	. 67	.79	.40	268
Monthly avg	**	44	. 60	1.08	1.65	2.43	.0016	0175	. 0163	.0012	. 36	.007	0	.78	.79	.48	552
Dec. 4	v. sl.	v. sl.	. 50	4.75	1 70	3.05	.0022	.0164	.0158	.0006	. 30	.010	0	. 63	.71	.40	454
Dec. 18		"	. 60	3.85	1.55	2.30	.0008	.0202	.0168	.0034	. 22	.003	0	.81	.48	.39	3844
Monthly avg	"	"	. 55	4.30	1.63	2.67	.0015	.0183	.0163	.0020	.26	007	0	.72	.60	.40	2149
Yearly avg	v. sl.	v. sl.	.41	3.55	1.40	2.15	.0011	.0165	.0155	,0010	.25	.006	0	.56	. 55	.40	1235

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the tap in the Laboratory of the State Board of Health in Providence, collected during the second and fourth week of the month.

	Арр	EARAN	CE.	ON	ESID EVA ATIO	. РО-		APPEAI	ANCE.				TRO-				
DATE OF								Alb	umino	id.				red.			ໍ
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	I ree.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitnites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Ian. 9	v. sl.	v. sl.	.48	4.20	1 50	2.70	.0015	.0156	.0150	.0006	. 37	.018	0	.67	.95	.48	192
Jan. 23	**		. 35	4.15	1.30	2.85	.0016	.0144	.0130	.0014	. 10	014	.0002	. 53	1.03	.55	724
Monthly avg	**		. 12	4.18	1,49	2.78	.0017	.0150	.0140	0010	. 39	.016	.0001	, 60	.99	. 52	458
Feb. 6	v. sl.	v. sl.	. 31	4.20	1.70	2.50	.0024	. 0152	.0138	.0014	.39	.016	0	.51	1.11	. 45	341
Feb. 20		sl.	.25	1.85	1.70	3.15	.0014	.0178	.0120	.0058	. 39	.016	.0004	. 46	.95	.65	660
Monthly avg	**		.28	1.53	1.70	2.83	.0019	.0165	.0129	.0036	. 39	.016	.0002	. 19	1.03	. 55	501
Mar. 6	v. sl.	sl.	. 25	3.60	1.35	2 25	.0052	.0131	.0128	,0006	.28	.009	0	41	,63	. 37	1984
Mar. 20	**	**	.26	3.00	1.40	1,60	.0034	.0118	.0112	.0006	. 30	.006	0	.45	, 56	.40	307
Monthly avg.,.	••	**	.26	3.30	1.38	1.92	.0043	.0126	.0120	,0006	.29	.005	0	. 43	.60	. 39	1146
April 10	v. sl.	sl.	.35	3_45	1.25	2_20	.0010	.0146	.0140	,0006	. 35	.009	trace.	.50	.95	. 52	210
April 21	"	44	.31	3 85	1,45	2 40	.0012	.0181	.0130	.0054	. 36	.011	0	.48	.05	.52	400
Monthly avg	0.4		33	3 65	1 35	2 30	0011	.0165	.0135	0030	.36	010	trace.	, 10	.95	. 52	30.

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the tap in the Laboratory of the State Board of Health in Providence, collected during the second and fourth week of the month.—Continued.

							arts III										
	Аррғ	EARANG	CE.	on	ESIDI Eva atio:	PO-		Аммо	ONIA.				rdo- EN.				
DATE OF COLLECTION.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
May 8	dec.	dec.	.35	4.65	1.85	2.80	.0018	.0192	.0138	. 0054	.38	.015	.0002	.53	1.27	. 59	192
May 22	v. sl.	sl.	.35	4.55	1.65	2.90	.0002	.0170	.0142	0028	.41	.020	0	. 50	1.27	. 65	425
Monthly avg	dec.	dec.	. 35	1.60	1.75	2.85	.0010	.0181	.0140	.0041	.40	.018	.0001	. 52	1.27	. 62	309
June 5	sl.	sl.	.42	4.60	1.45	3.15	.0012	.0180	.0158	.0022	.41	.016	0	.48	1.11	.70	334
June 19	"		.41	4.25	1.10	3.15	.0006	.0182	.0156	.0026	.42	.014	0	.43	1.43	.82	602
Monthly avg		"	.42	4.43	1.28	3.15	. 0009	.0181	.0157	.0024	.42	.015	0	.46	1.27	.76	468
July 10	v. sl.	v. sl.	.41	4.65	1.45	3.20	.0002	.0174	.0158	.0016	. 34	.014	0	. 34	.95	.75	Lost.
July 24		"	.35	1.30	1.35	2.95	.0002	.0186	.0174	.0012	.31	.018	0	.41	1.11	.65	184
Monthly avg		4.1	.38	4.48	1.40	3.08	.0002	.0180	.0166	.0014	. 33	.016	0	.38	1.03	.70	
Aug. 7	sl.	sl.	.45	5.20	2.90	3.20	.0002	.0236	.0214	.0022	. 32	.010	trace.	. 49	.95	.70	Lost.
Aug. 28	v. sl.	v. sl.	. 35	5.70	1.10	4.60	.0008	.0164	.0148	.0016	. 40	.015	0	.45	1.43	.90	32
Monthly avg	sl.	sl.	.40	5.45	1.55	3.90	.0005	.0200	.0181	.0019	. 36	.013	trace.	.47	1.19	.80	

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, taken from the tap in the Laboratory of the State Board of Health in Providence, collected during the second and fourth week of the month—Concluded.

	Арр	EARANG	E.	ON	ESIDI EVA ATIO	140~		Аммо	ONIA.			Ni G	TRO- EN,				
Date of					٠			Alb	umino	id.				ed.			ei.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Sept. 11	v. sl.	sl.	33	5 65	1.30	1 35	0010	.0192	.0164	.0028	.42	.011	0	.43	1.35	.90	33
Sept. 25	**	• •	.31	5 60	1.39	4 30	0006	0180	0164	.0016	52	009	trace.	. 42	1 43	.72	50'
Monthly avg	**	••	32	5.63	1.30	4 33	0005	0186	0161	.0022	.47	.012	trace.	. 43	1 39	.81	573
Oct. 9	sl.	sl.	42	5 30	1.65	3 65	.0008	.0208	.0172	0036	. 45	.009	0	.48	1.43	.80	105
Oct. 23	16		.48	5 65	1.60	1 05	.0008	.0194	.0166	0028	. 52	.011	0	. 60	1.56	.72	210
Monthly avg			. 45	5,48	1.63	3.85	.0008	.0201	.0169	.0032	. 49	.010	0	.54	1 50	.76	158
Nov. 6	v. sl.	sl.	. 59	6,20	2,35	3.85	.0010	0222	.0176	.0016	. 53	.012	trace.	73)	1.50	.70	39
Nov. 20	sl.		.52	5.90	1.60	4.30	.0008	.0208	.0184	.0024	. 53	.010	0	,66	1.50	.80	47)
Monthly avg		**	.56	6.05	1.98	1 07	.0000	.0215	.0180	. 0035	.53	011	trace.	.70	1.50	.75	43
Dec. 4	v. sl.	sl.	. 50	5 55	1 65	3 90	.0014	.0206	.0174	.0032	. 49	017	trace.	.61	1 27	.90	74
Dec. 18	**	**	.45	5.35	1.80	3 55	,0006	.0190	.0150	.0040	.45	015	trace.	.60	1.27	. 69	100
Monthly avg		**	.48	5 45	1.73	3 72	.0010	0198	.0162	_0036	.47	.016	trace,	.61	1.27	.80	87.
Yearly avg	v. sl.	sl.	. 39	4.80	1.55	3 25	_0013	.0179	0154	_0025	41	.013	0	.51	1_15	_65	61.

Chemical and Bacteriological Examination of the Water Supply of the City of Providence, giving the Average for the Years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		on	ESIDI Eva	PO-		Аммо	ONIA.				TRO-				
Date of		٠				Alb	umino	id.		٠		ed.	Į.		j.
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Pettaconsett—															
1900	.45	5.80	1.90	3.90	.0014	.0222	.0182	.0040	.46	.014	.0003	. 56	1.45	1.00	3395
1901	.44	5.85	2.10	3.75	.0013	.0248	.0207	.0041	.42	.013	.0003	. 67	1.40	.80	4032
1902	.42	5.05	1.75	3.30	.0022	.0230	.0192	.0038	. 39	.012	.0002	.62	1.15	.65	6650
Washington-															
1900	.46	3.75	1.50	2.25	.0017	.0173	.0164	.0009	.28	.006	.0000	. 55	. 60	.60	1072
1901	.45	3.85	1.60	2.25	.0015	.0173	.0163	.0010	. 28	.004	.0000	. 59	, 65	. 50	792
1902	.43	3.55	1.40	2.15	.0020	.0170	.0162	.0008	.28	.005	.0002*	. 55	.50	.40	633
Норе															
1900	.39	3.60	1.40	2.20	.0007	.0155	.0142	.0013	. 25	.007	.0000	. 48	.70	.60	536
1901	. 40	3.95	1.50	2.45	.0005	.0154	.0145	.0009	. 26	.005	.0000	. 53	.70	.50	694
1902	.41	3.55	1.40	2.15	.0011	.0165	.0155	.0010	.25	.006	.0000	.56	.55	.40	1235
Laboratory Tap-															
1900															
1901	.41	6.20	1.95	4.25	.0005	.0224	.0193	.0031	.49	.013	.0001	.57	1.70	.95	1600
1902	.39	4.80	1.55	3.25	.0013	.0179	.0154	.0025	.41	.013	.0000	.51	1.15	. 65	615

^{*} All determinations 0 except one.

Pawtuxet Valley Water Suply.

Chemical and Bacteriological Examination of the Water Supply of the Pawtuxet Valley, controlled by the Pawtuxet Valley Water Company, the sample being taken in the village of Riverpoint.

	Агг	EARAN	CE.	ōN	ESID EVA ATIO	PO-		Аммо	ONIA.				TRO-				
D _{ATE} of								Alb	umino	id.				ed.			ů.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 13	v. sł.	0	. 35	3.50	1.75	1.75	0036	.0136	.0136	,0000	.25	022	0000	. 49	.79	.44	23
Feb. 10	sl.	v. sl.	.26	3.40	.80	2.60	.0062	0134	.0120	.0014	.36	017	.0000	. 39	-63	40	117
Mar. 20	v. sl.	v. sl.	. 21	3 20	1.40	1.80	0024	.0120	.0118	.0002	.29	.025	.0000	. 35	.48	.24	29
April 14	0	v. sl.	-21	3.00	1.20	1.80	.0010	0128	.0128	.0000	.29	.024	.0000	. 32	. 56	. 39	838
May 19	0	v. sl.	.23	3.05	1.10	1.95	.0008	.0146	.0134	.0012	. 30	.006	.0000	. 34	.79	. 59	
June 18	v. sl.	v. sl.	. 31	3 30	1 10	2 20	.0010	.0186	.0176	.0010	. 32	.008	.0000	. 35	.95	.70	
July 14	v. sl.	trace	. 35	3.45	1 00	2 45	.0006	0182	_0170	.0012	.29	012	.0000	.41	.79	.50	192
Aug. 1	v. sl.	v. sl.	. 31	3 45	1.40	2 05	.0012	0188	.0176	.0012	28	006	.0000	. 33	.71	.60	1153
Sept. 15	v. sl.	v. sl.	24	3.35	1.20	2 15	.0008	.0184	0182	.0002	26	006	.0000	31	.70		241
Oct. 13	v. sl.	v. sl.	. 32	3.75	1.15	2 60	0012	0190	0180	.0010	36	005	.0000	.38	.95	.80	4836
Nov. 17	v. sl.	v. sl.	. 45	4.30	1.40	2 90	.0006	.0180	0180	.0000	44	010	,0000	.38	1 03	.80	346
Dec. 23	v. sl.	v. sl.	.42	4 25	1.60	2 65.	0070	.0208	0196	.0012	46	024	,0000	38	.95	80	
Yearly avg	v. sl.	v. sl.	.31	3.50	1.25	2.25	.0022	.0165	0158	0007	. 33	014	,0000	. 37	.80	.55	228

Pawtuxet Valley Water Suply.

Chemical and Bacteriological Examination of the Water Supply in the Pawtuxet Valley, taken from a supply known as Knight's Spring or Fountain, the sample being taken in the village of Riverpoint.

						(1	arts in	100,0	00.)								
	App	EARAN	CE,	ON	ESID EVA	APO-		Амм	ONIA.				TRO- EN.				
Date of								All	unin	oid.				ed.			ن
Collection.	Turbidity.	Sediment,	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 13	0	0	0	6,20	2.55	3.65	.0000	.0012			.84	. 440	.0000	. 02	2.03	.28	34
Feb. 10	0	0	0	5.75	2.25	3.50	.0092	. 0014			. 66	. 334	.0000	. 00	1.76	. 28	25
Mar, 20	0	0	0_	5.50	1.80	3.70	.0000	.0014			.84	.264	.0000	.00	1.82	. 10	46
April 14	0	0	0	5.25	2.00	3.25	.0000	.0034			.72	. 255	.0000	.00	1.82	.21	38
May 19	0	0	0	5.10	1.60	3.50	. 0000	.0018			. 64	. 246	.0000	.00	2.08	. 33	12
June 18	0	0	0	5,20	1.80	3.40	.0000	.0008			. 64	. 185	.0000	.00	1.95	. 30	
July 14	0	0	0	6.15	2.05	4.10	. 0000	.0010			.68	.273	.0000	.01	1.95	. 29	75
Aug. 1	0	0	0	7.10	3.85	3.25	.0002	.0008			.75	. 343	.0000	.00	2.15	. 39	93
Sept. 15	0	0	0	5.75	1.35	4.40	.0000	.0012			. 56	. 264	.0000	.00	1.89	.20	81
Oct. 13	0	Õ	0	6.45	1.80	4.65	.0000	.0016			.74	.317	,0000	.00	1.69	. 39	3410
Nov. 17	0	0	0	7.55	2.40	5.15	.0000	.0008			.94	.484	.0000	.00	2.73	.42	240
Dec. 22	0	0	0	7.85	2.75	5.10	.0002	.0028			1.08	.440	.0000	.00	2.34	.40	1330
Yearly avg	0	0	0	6.15	2.20	3.95	.0001	.0915			.76	. 320	.0000	.00	2.00	.30	571

Pawtuxet Valley Water Supply.

Chemical and Bacteriological Examination of the Water Supply in the Pawtuxet Valley, controlled by the Coventry Water Company, the sample being taken in the village of Acetic Centre.

	Арр	EARAN	CE.	ON	Eva Eva atio	PO-		Амме	ONIA.				FRO=				
DATE OF								Alb	umine	oid.				ied.			ú
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates,	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per e.
Jan. 13	0	0	.01	2 05	.70	1.35	.0008	.0068			. 30	002	0000	.09	. 24	. 25	1)
Feb. 10	0	0	.03	1.75	.70	1.05	.0005	.0074			. 32	.003	.0000	.09	.20	. 20	5580
Mar. 20	0	0	.01	2 10	. 80	1.30	.0008	.0064			.29	.005	.0000	.07	.24	. 17	Lost.
April 14	0	0	.00	1.70	.90	.80	.0004	.0068			. 29	.005	,0000	.09	. 32	. 20	353
May 19	0	0	.00	1.80	. 50	1.30	.0002	.0072			. 30	.004	,0000	.06	. 32	.19	10850
June 18	0	0	.00	2 10	_45	1.65	.0006	.0060			. 29	.005	.0000	.07	. 32	. 30	
July 14	0	0	.04	2 20	.70	1.50	0004	0070			. 29	003	.0000	. 10	.24	. 15	5156
Aug. 1	0	0	.00	1.85	. 65	1.20	.0002	0074			. 29	.003	.0000	.08	. 16	. 10	143
Sept. 15	0	0	02	1.95	40	1.55	.0004	0078			29	.005	,0000	07	32		1236
Oct. 13	0	0	. 10	1.65	.30	1.35	.0002	.0056			29	002	,0000	.05	. 32	.28	29
Nov. 17	0	0	.05	1 95	.70	1 25	_0002	0052			.32	004	.0000	.06	. 24	. 22	75
Dec. 22	0	0	.04	2.00	.75	1 25	0014	.0050			. 30	003	,0000	.06	.24	.25	1017
Yearly avg	0	0	.03	1 95	65	1 30	0005	.006%			. 30	,004	,0000	. 07	25	20	2478

East Greenwich Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the town of East Greenwich, the sample being taken from the tap in the Office of the Health Officer.

						(1.	11(8 111	100,00	.,								
	Арр	EARAN	CE,	on	ESID Eva ATIO	PO-		Аммо	ONIA.				TRO- EN.				
Date of								All	umine	oid,				ned.			· c
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c.
Jan. 13	v. sl.	v. sl.	. 30	3.85	1_15	2.70	. 0004	.0086	.0084	.0002	. 39	.008	.0000	. 39	.79	. 45	740
Feb. 12	0	v. sl.	. 20	4.25	.90	3.35	.0008	.0062	.0058	.0004	.30	.013	.0000	. 27		.45	257
Mar. 17	v. sl.	0	.31	3.70	1.45	2.25	.0012	.0116	.0094	.0022	. 36	.011	.0000	.48	. 63	.40	112
April 14	0	v. sl.	. 30	2,95	1.10	1.85	.0002	.0084	.0080	.0004	. 37	.009	.0000	.58	.79	.41	1319
May 20	0	v. sl.	. 30	4.15	1.25	2.90	.0002	.0090	.0088	.0002	. 43	.015	.0000	. 35	1.27	.90	287
June 16	0	v. sl.	. 19	4.10	.95	3 15	.0006	.0078	.0066	.0012	. 41	.008	.0000	. 20	1.43	1.31	639
July 11	0	v. sl.	.56	5.30	1.30	4.00	.0004	.0114	.0106	.0008	. 39	.011	.0000	.48	1.35	1.40	124
Aug. 1	v. sl.	sl.	, 50	5.50	1.70	3.80	.0004	.0118	.0106	.0012	. 39	.010	.0000	. 45	1.69	1.60	3968
Sept. 15	0	v. sl.	. 15	4.65	1.35	3.30	.0002	.0072	.0068	.0004	. 39	.010	.0000	. 20	1.56	1.40	65
Oct. 15	0	v. sl.	. 23	4.90	1.00	3.90	.0002	.0078	.0070	.0008	.44	.010	.0000	. 27	1.69	1.50	19
Nov. 18	v. sl.	v. sl.	.26	4.35	.95	3.40	.0002	.0074	.0064	.0010	. 47	.010	,0000	. 28	1.69	1.60	119
Dec. 18	0	v. sl.	. 31	5.05	1.35	3.70	.0008	.0098	.0098	.0000	.46	.011	.0000	.33	1.69	1.10	137
Yearly avg	0	v. sl.	. 30	4.40	1.20	3.20	.0005	.0089	.0081	.0008	.41	.011	.0000	.36	1.35	1.05	649

Kent County Water Supply.

Chemical and Bacteriological Examination of the Water Supply of Kent County, giving the Average for the Years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

				(1	'arts ir	100,0	000.)							_	
		ON	esid Eva atio	P()-		Амм	ONIA.				TRO-				
Date of						All	aumine	oid.				ed.			s'
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness,	Alkalinity.	Bacteria per c. c.
Pawtuxet Valley—															
1900	. 33	3 70	1.40	2 30	0008	0166	0154	.0012	. 32	.011	,0000	. 36	. 65	.80	527
1901	. 29	3 70	1 45	2 25	0012	.0159	.0151	,0008	35	.016	,0000	. 39	.80	. 55	2341
1902	31	3 50	1 25	2 25	0022	0165	0158	0007	33	015	0000	37	.80	. 55	888
Knight's Spring—															
1900	.00	\$ 55	2 10	3 45	.0001	.0013			64	. 237	,0000	.01	1 65	.30	1142
1901	.00	6.40	2 20	4 20	0004	.0020			.81	. 321	.0000	.01	2 05	.30	373
1902	.00	6.15	2 20	3 95	0001	.0015			76	. 320	,0000	00	2 00	.30	571
Coventry Water Co.—															
1900	0.5	2 05	60	1 45	.0003	.0063			.28	.005	0000	08	.25	_30	2154
1901	. 04	2.20	.70	1.50	.0002	0074			29	003	,0000	.08	30	.25	1373
1902	0.3	1 95	. 65	1 30	.0005	0068			. 30	004	0000	.07	25	.20	2478
East Greenwich—															
1900															
1901	40	4.50	1 45	3 05	.0003	0114	.0104	0010	40	009	0000	44	1 15	85	2144
1902	30	4 40	1 20	3 20	.0005	0089	0081	0008	41	011	0000	36	1 35	1 05	649

Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, the sample being taken from the First Impounding Reservoir.

	Аррг	CARANC	ъ.	or	ESIDI Eva atio	PO-		Аммо	ONIA,				PRO-				
D _{ATE} of					1			Alb	umino	id.				ed.			÷
Collection.	Turbidity. •	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 21	sl.	sl.	.65	4.10	1.85	2.25	.0166	.0332	.0294	.0038	.27	.003	.0000	.87	. 55	.35	220
Feb. 19	sl.	sl.	.61	3.75	2.00	1.75	.6138	.0268	.0226	.0042	.24	.010	.0000	.77	.63	.45	35
Mar. 17	v. sl.	sl.	.40	2.90	1.30	1.60	.0150	.0162	.0140	.0022	. 17	.005	.0000	. 47	. 56	.39	201
April 14	v. sl.	sl.	.38	2.85	1.50	1.35	.0008	.0240	.0180	.0060	.22	.008	.0000	. 56	. 63	.30	1262
May 20	sl.	sl.	.50	3.00	2.00	1.00	.0016	.0280	.0224	.0056	. 24	.002	.0000	. 64	.79	.35	209
June 23	dist.	. sl.	.70	3.35	1.70	1.65	.0012	.0320	.0286	.0034	. 20	.006	.0000	.73	. 55	.40	227
July 21	dist.	sl.	. 66	3.40	1.80	1.60	.0078	.0340	. 0312	.0028	.22	.002	.0000	.62	.63	. 50	2217
Aug. 25	dec.	dec.	.81	5.95	4.55	1.40	.0022	.0878	.0340	. 0538	. 20	.007	.0000	.99	. 56	.50	2604
Sept. 15	dec.	dec.	.65	5.30	3.20	2.10	.0010	.0632	.0344	.0288	.20	.007	.0000	.90	.48		210
Oct. 21	dist.	sl.	.57	4.60	2.30	2.30	.0036	.0464	.0362	.0102	.27	. 002	.0000	.81	.63	.40	2065
Nov. 24	sl.	sl.	.41	3.25	1.35	1.90	.0058	.0412	. 0354	.0058	.26	.008	.0000	.68	.48	.30	91
Dec. 22	dist.	sl.	.41	3.00	1.45	1.55	.0036	.0276	.0264	.0012	.22	.005	.0000	.47	.40	.36	3472
Yearly avg	sl. to dist.	sl.	.56	3.80	2.10	1.70	.0061	.0384	.0277	.0107	. 23	.005	.0000	.71	.55	.40	1068

Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, the sample being taken from the Pumping Station.

	Аррі	EARANG	E.	ox	esid Eva atio	PO=		Аммо	NIA.			N ₁ T _{GE}	RO-				
DATE OF					-			Alb	uminoi	d.				red.			ů
Collection.	Furbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine,	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per e. c.
Jan. 21	v. sł.	v. sl.	.41	3.50	.95	2.55	.0024	.0128	.0126	.0002	.29	.010	.0000	. 55	.70	.50	. 99
Feb. 19	v. sl.	v. sl.	. 39	4.00	1.40	2.60	.0044	.0141	.0140	,0004	. 25	.015	,0000	4.5	.70	.60	83
Mar. 17	v. sl.	v. sl.	. 35	2.95	1.20	1.75	.0004	.0124	.0120	.0004	.21	.005	.0000	.38	. 56	.35	108
April 14	v. sl.	v. sl.	.42	2.95	1.50	1.45	.0004	.0138	.0134	.0004	.22	.008	.0000	, 53	.79	. 40	495
May 20	sl.	v. sl.	. 55	4.20	1.80	2 40	.0020	.0194	.0182	.0012	.26	008	.0000	.61	.79	.60	605
June 23	v. sl.	sl.	.91	5.30	2.30	3.00	.0074	.0288	.0264	.0024	. 20	.010	,0000	.91	.95	.65	1109
July 21	sl.	dist.	.72	4.25	1.65	2 60	.0054	.0274	.0212	.0062	.23	.011	,0000	.71	.79	.70	465
Aug. 25	sl.	dee.	.82	4 85	2.10	2 75	.0038	.0378	.0302	.0076	. 20	.009	,0000	.85	.79	50	363
Sept. 15	sl.	dec.	_65	6.05	2.45	3.60	.0070	.0474	.0362	.0112	. 22	007	,0000	.80	.79	.61	1015
Oct. 21	dist.	sl.	.76	5.55	2.35	3.00	.0038	.0374	.0342	.0032	. 35	.004	,0000	.81	.95	. 50	642
Nov. 24	sl.	v. sl.	.51	4.55	1 70	2.85	.0028	.0298	.0282	.0016	. 34	.010	,0000	.75	.87	.50	584
Dec. 22	sł.	sl.	.62	3.85	1.60	2.25	.0012	.0204	.0194	.0010	. 27	006	,0000	.70	.79	.44	2449
Yearly avg	sl.	sl.	. 59	4 35	1.75	2.60	.0034	.0252	. 0222	.0030	.25	.009	.0000	.67	.80	. 55	668

Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, the sample being taken from the tap in the office of the Superintendent of the Woonsocket Water Works.

																	
	Аррі	EARANG	CE.	on	EVA ATIO	PO-		Аммо	ONIA.			Nic	FRO-				
Date of					ن ا			Alb	umino	id.				ned.			ů
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 21	v. sl.	v. sl.	.41	3.90	1.05	2.85	.0040	.0126	.0116	.0010	. 29	.008	.0000	. 53	.79	. 50	202
Feb. 19	v. sl.	v. sl.	.42	3.75	1.30	2.45	. 0090	.0158	.0154	.0004	.25	.015	. 0000	. 50	. 70	. 60	324
Mar. 17	v. sl.	v. sl.	. 39	3.15	1.25	1.90	.0006	.0138	.0120	.0018	. 23	.010	.0000	.48	. 56	. 35	823
April 14	v. sl.	v. sl.	. 41	2.85	1.50	1.35	.0004	.0170	.0148	.0022	. 22	.008	.0000	. 57	. 79	. 40	921
May 20	sl.	v. sl.	. 55	3.70	1.85	1.85	.0018	.0186	.0184	.0002	. 26	.006	.0000	. 60	.79	. 60	6262
June 23	v. sl.	sl.	.70	4.65	1.80	2.85	.0008	.0246	.0228	.0018	. 19	.010	.0000	. 65	1.11	.80	135
July 21	sl.	sl.	. 56	3 65	1.75	1.90	. 0010	.0248	. 0220	.0028	. 23	. 010	.0000	. 57	1.11	.70	1517
Aug. 26	sl.	dec.	.70	4.60	2.15	2.45	.0004	.0328	. 0256	.0072	. 20	.007	.0000	.78	.87	. 50	387
Sept. 15	sl.	dec.	. 60	4.65	1.85	2.80	.0022	.0394	.0308	.0086	. 22	.007	.0000	.70	.79	. 60	417
Oet. 21	dist.	sl.	.76	4.85	2.20	2.65	.0012	.0336	.0296	.0040	.31	.004	.0000	.81	1.11	. 50	182
Nov. 24	sl.	v. sl.	. 55	3.95	1.35	2.60	.0018	.0292	.0272	.0020	.34	.009	.0000	.72	.95	. 50	378
Dec. 22,,	sl.	sl.	, ,60	4.05	1.25	2.80	.0006	.0182	.0182	.0000	.23	.008	.0000	. 69	.95	.45	3844
Yearly avg	sl.	sl.	. 55	4.00	1.69	2.40	. 0020	.0234	0207	.0027	.25	.009	.0000	.63	.90	. 55	1283

Chemical and Bacteriological Examination of the Water Supply of the City of Woonsocket, giving the Average for the Years 1900–1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

				(P:	arts in	100,00	0(),)								
		ON	esid Eva atio	го-		Аммо	ONIA.				RO-	,			
Date of						All	umino	id.				red.			e.
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c.
Reservoir 3—															\
1900	.82	4.85	2.85	2.00	.0010	.0507	0350	.0157	.24	006	.0000	.96	.75	. 65	603
1901	. 58	4.15	2.35	1.50	.0034	.0469	.0317	.0152	. 22	.004	.0000	.82	60	.50	819
1902	. 56	3 80	2 10	1.70	.0061	.0384	.0277	.0107	. 23	.005	.0000	.71	. 55	.40	1068
Pumping Station—															
1900	.72	4-70	2 25	2 45	.0017	0311	0256	0055	. 25	.008	.0000	81	.85	.70	668
1901	. 63	1 20	2 00	2 20	0032	.0247	.0231	.0016	24	.006	0000	77	.90	.55	882
1902	. 59	4 35	1 75	2.60	.0034	_0252	0222	0030	25	.009	0000	67	80	,55	668
Supt's Office—															
1900	70	4 90	2.35	2 60	0014	0292	.0232	.0060	.24	010	0000	.77	90	75	370
1901	. 64	4 65	2.10	2.55	.0017	0277	.0226	_0051	.24	.007	.0000	79	1 00	.60	1177
1902	, 55	4.00	1.60	2 40	.0020	0231	.0207	0027	25	009	0000	63	90	.55	1283

Pawtucket Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the City of Pawtucket, the sample being taken from the Intake at the Happy Hollow Pond.

						(1 a	its iii		0.)								
	Аррі	EARANG	E.	ON	ESID EVA ATIO	PO-		Аммо	ONIA.				TRO- EN.				
D _{ATE} of					n.			All	umino	id.				ned.			:
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c.
Jan. 27	v. sl.	dist.	. 31	3.85	1.40	2.45	.0010	.0152	.0128	.0024	. 32	.011	.0000	. 45	1.27	.70	1508
Feb. 24	v. sl.	sl.	. 20	4.10	1.05	3.05	.0008	.0104	.0104	.0000	. 33	.013	.0000	.26	1.43	.90	235
Mar. 24	sl.	sl.	.25	4.05	1.25	2.80	.0012	.0206	.0192	.0014	. 30	.00 6	.0000	. 37	1.11	.58	295
April 28	v. sl.	sl.	. 22	3.80	1.30	2.50	.0022	.0170	.0162	.0008	. 34	.021	.0000	. 31	1.50	.85	968
May 26	v. sl.	sl.	. 20	4.10	1.25	2.85	.0032	.0248	.0198	.0050	. 33	.016	trace.	. 32	1.76	1.10	47
June 23	v. sl.	v. sl.	.18	4.45	1.70	2.75	.0024	.0184	.0178	.0006	. 33	.007	.0000	.24	1.56	1.10	749
July 28	v. sl.	v. sl.	. 16	3.60	1.00	2.60	.0018	.0182	.0180	.0002	. 30	.008	.0000	. 24	1.19	.90	300
Aug. 25	0	v. sl.	. 15	3.60	1.25	2.35	.0006	.0182	.0170	.0012	. 30	.007	.0000	.26	1.19	1.05	50
Sept. 29	v. sl.	sl.	.15	3.35	1.10	2.25	.0028	.0246	.0228	.0018	. 30	.007	.0000	. 28	.95	.80	488
Oct. 29	v. sl.	v. sl.	.20	4.10	1.20	2.90	.0048	.0162	.0140	.0022	.34	.005	.0000	. 35	1.27	1.09	141
Nov. 24	sl.	v. sl.	.16	4.00	1.30	2.70	.0022	.0158	.0150	.0008	. 36	.007	.0000	. 32	1.35	1.00	88
Dec. 29	v. sl.	v. sl.	.50	4.45	1.25	3.20	.0016	.0140	.0140	.0000	. 33	.015	.0000	. 59	1.35	.80	1086
Yearly avg	v. sl.	sl.	. 22	3.95	1.25	2.70	.0021	.0178	.0164	.0014	. 32	.010	.0000	. 33	1.35	.90	496

Pawtucket Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the City of Pawtucket, the sample being taken from the tap in the Boiler room of Pumping Station No. 3.—Continued.

	Аррг	GARANC	E.	on	EVA ATIO	PO-		Аммо	ONIA.	1			rro-				
DATE OF								Alb	umino	id.				ьеd.			ر.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	t'hlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Mkalinity.	Bacterist per c.
Jan. 27	v. sl.	0	.31	3 55	1 35	2 20	0012	.0114	.0114	0000	. 32	.011	.0000	.45	1 27	.70	612
Feb. 24	v. sl.	trace	. 19	4.10	1.10	3.00	.0012	.0094	.0090	0004	. 33	016	.0000	.24	1 56	.90	139
Mar. 24	v. sl.	v. sl.	.25	3.70	1.30	2,40	.0010	.0122	0122	.0000	. 31	006	0000	. 37	1.11	.60	[41
April 28	v. sl.	v. sl.	.20	3,60	1.00	2.60	.0014	.0112	0112	.0000	. 34	.021	.0000	.28	1.50	.85	Lost.
May 26	0	v. sl.	. 20	3.90	1 20	2 70	.0020	.0130	0128	.0002	33	016	.0000	_26	1 76	1.10	252
June 23	v. sl.	0	.18	4 40	1.30	3 10	.0024	.0126	-0120	0006	33	.007	.0000	21	1 56	1 10	2356
July 28	v. sl.	v. sl.	. 15	3 60	90	2.70	.0020	0114	0114	0000	.25	.008	.0000	20	1 19	. 90	153
Aug. 25	0	v. sl.	_15	3.65	1.20	2,45	0010	. 0126	0120	0006	. 30	.007	,0000	23	1 19	1 05	84
Sept. 29	v. sl.	v. sl.	14	3 25	1 00	2 25	.0016	.0188	0156	.0032	30	007	0004	28	.95	.90	Lost.
Oct. 29	v. sl.	v. sl.	20	3 65	90	2 75	0020	.0134	0126	_0005	. 34	006	.0000	31	1 27	1 12	25
Nov. 24	v. sl.	v. sl.	. 15	3 95	1.75	2.20	0020	.0128	.0124	0004	36	009	,0000,	22	1 43	1.00	10
Dec. 29	v. sl.	v, sl.	.50	4.40	1.50	2 90	.0018	.0128	0122	0006	. 33	015	.0000	. 56	1.43	.80	101
Yearly avg	v. sl.	v. sl.	22	3 80	1 20	2 60	.0016	.0126	0120	. 2000	32	011	0000	.30	1 35	90	526

Pawtucket Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the City of Pawtucket, giving the Average for the Years 1900–1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.—Concluded.

		ON	ESID EVA ATIO	PO-		Амм	ONIA.				TRO- EN.				
Date of						All	oumino	id.				ed.			٠,
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Frec.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Intake—															
1900	31	4.20	1.40	2.80	.0016	.0163	.0141	.0022	. 29	.009	.0000	. 35	1.35	1.00	918
1901	31	4.25	1.45	2.80	.0013	.0169	.0159	.0010	. 32	.008	.0000	.38	1.40	1.00	1135
1902		3.95	1.25	2.70	.0021	.0178	.0164	.0014	.32	.010	.0000	. 33	1.35	.90	496
Tap in Boiler Room—															4
1900	31	4.10	1.30	2.80	.0012	.0130	.0121	.0009	. 29	.000	.0000	. 33	1.35	1.00	815
1901	31	4.15	1.35	2.80	.0008	.0139	.0136	.0003	. 32	.009	.0000	. 36	1.40	.95	3547
1902	22	3.80	1.20	2.60	.0016	.0126	.0120	.0006	. 32	.011	.0000	.30	1.35	.90	526

Bristol Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Bristol, the sample being taken from the Kiekemuit River, at the Pumping Station of the Bristol and Warren Water Works.

	Арр	EARAN	CE.	ON	ESIBU EVA ATION	PO-		Амм	ONIA.				rro- EN.				
DATE OF								A11	oumine	id.				ij			
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Jan. 6	trace	v. sl.	1.20	6.60	3.50	3 10	.0014	02.00	.0254	,000.	. 60	.014	.0000	1.44	1.63	. 30	692
Feb. 10	v. sl.	v. sl.	. 64	6,25	2.55	3.70	.0022	.0254	.0232	.0022	.83	.012	0000	.93	1.56	. 55	3596
Mar. 3	sl.	sl.	.49	4.10	2.05	2.05	.0014	.0254	.0220	.0034	.28	.009	.0000	.81	. 63	. 25	
April 1	sl.	sl.	88	5.65	2.50	. 315	.0022	.0302	.0278	0024	.58	.006	.0000	1.22	1.43	.50	787
May 5	sl.	sl.	1_24	6.75	3.35	3.40	.0054	.0412	.0360	.0052	.57	.005	.0000	1.62	2.42	. 65	598
June 2	sl.	sl.	1.02	7 00	2.95	4 05	.0062	0392	.0352	.0040	.96	.011	.0000	1.19	1.56	.91	*19654
July 1	v. sl.	v. sl.	.81	11.85	3.10	8.75	.0028	0374	.0362	.0012	3 35	.003	.0000	1.08	2.21	1 05	13578
Aug. 1	v. sl.	sl.	.57	35.55	11.30	24.25	.0018	.0346	0320	.0026	13 30	.006	.0000	.81	6 21	1.05	58280
Sept. 2	v. sl.	sl.	.45	15,55	3 50	12.05	.0016	.0378	0364	.0014	5.35	.006	.0000	.74	3 12	1 25	26692
Oct. 1	st.	sl.	.48	10.55	3.15	7.40	.0032	.0430	.0386	0044	3 26	006	.0000	.77	2_21	1.30	4650
Nov. 10	sl.	sl.	.52	9.30	2.50	6.80	.0036	0394	0366	0028	2 24	.005	.0000	.82	2 02	1.10	377
Dec. 1	v. sl.	v. sl.	.58	9.85	2 60	7.25	.0032	0360	.0336	0024	2.48	.007	.0000	.85	2.34	1 25	3720
Yearly avg	sl.	sl.	.74	10.75	3 60	7.15	.0029	.0319	.0322	0027	2 82	008	.0000	1.02	2 30	.85	12052

^{*}Stood 2 days.

Bristol Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Bristol, the sample being taken from the tap in the Office of the Town Clerk of Bristol.

	Арре	ARANC	Е.	ON	SIDUI EVAP- ATION	o-		Аммо	NIA.				rro-				
DATE OF COLLECTION.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
							-					-		_		-	
Jan. 6	trace.	iron sl.	1.22	7.45	3.35	4.10	.0022	.0282	.0274	.0008	. 60	.012	.0000	1.46	1.69	. 35	354
Feb. 10	v. sl.	sl.	. 64	6.55	2.40	4.15	.0022	.0250	.0218	.0032	.86	.012	.0000	.93	1.82	:70	6076
Mar. 3	sl.	sl.	.45	4.05	1.85	2.20	.0018	.0220	.0194	.0026	. 30	.011	,0000	. 69	.71	.30	4092
April 1	sl.	dist.	.79	5.35	2.05	3.30	.0028	.0282	.0248	.0034	. 63	.008	.0000	1.04	1.69	.50	1646
May 5	sl.	sl.	1.22	7.10	3.20	3.90	.0024	.0378	.0346	. 1032	.60	.009	.0000	1.56	2.47	.70	2046
June 3	sl.	dec.	1.04	8.10	3.45	4.65	.0028	.0464	. 0366	.0098	.96	.016	. 0000	1.31	1.95	1.09	4836
July 1	v. sl.	dist.	.81	13.25	3.10	10.15	.0016	.0406	.0346	.0060	3.85	.003	.0000	1.10	2.47	1.10	30380
Aug. 1	v. sl.	sl.	. 56	33.90	9.65	24.25	.0022	.0340	.0304	.0036	12.89	.008	.0000	.81	6.07	1.20	30504
Sept. 2	v. sl.	dec.	:49	18.00	4.30	13.70	.0012	.0394	.0348	.0046	6.00	.009	.0000	.76	3.25	1.40	
Oct. 1	.la	dec.	. 46	11.35	2.45	8.90	.0014	.0470	.0384	.0086	3.30	.008	.0000	.85	2.34	1.40	1364
Nov. 10	. sl.	sl.	.55	9.05	2.30	6.75	.0018	.0388	. 0356	.0032	2.26	.008	.0000	.77	2.08	1.15	16678
Dec. 1	v. sl.	sl.	.62	10.10	2.40	7.70	.0022	.0348	.0328	.0020	2.55	.011	.0000	.84	2.21	1.30	
Yearly avg	sl.	sl.	.74	11.20	3.40	7.80	.0021	.0352	,0309	.0043	2.90	.010	.0000	1.01	2.40	.95	9798

Bristol Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Bristol, giving the Average for the Years 1900–1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		Ev	SIDUE SAPOI TION	RA-		Аммо	ONIA.				TRO-				
DATE OF			٠			Alb	umino	id.				ed.			
COLLECTION.	Color.	Total.	Loss on Ignition	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites,	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c
Pumping Station—															
1900	.99	11 25	4.00	7.25	.0035	.0439	. 0356	.0053	3 00	.007	,0000	1.16	2.30	1.05	1764
1901	.81	9.30	3.15	6.15	. 0029	.0358	_0323	.0035	2 04	.007	.0000	1 11	2.20	.85	2273
1902	.74	10.75	3 60	7.15	.0029	.0349	. 0322	.0027	2.82	.008	.0000	1 02	2 30	.85	12052
Town Clerk's Office-															
1900*	96	24.75	5.10	19 65	.0016	.0376	0325	0051	9.54	011	0000	1 07	3.75	1 15	13014
1901	.79	9.40	3.05	6.35	.0012	0341	.0304	.0037	2 03	008	0000	1 00	2.35	.95	4528
1902	.74	11.20	3 40	7.80	.0021	.0352	.0309	.0043	2 90	010	,0000	1 01	2 40	.95	9798

^{*}One sample was very high in "salt water."

Chemical and Bacteriological Examination of the Water Supply of the District of Narragansett, the sample being taken from Rocky Brook, at the Pumping Station.

	App	EARAN	CE.	ON	ESID Eva atio	PO-		Амм	ONIA.				TRO- EN.				
DATE OF COLLECTION.					gnition.			Alt	oumino			es.	ž.	Oxygen Consumed.			per c. c.
	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension	Chlorine.	As Nitrates.	As Nitrites.	Oxygen C	Hardness.	Alkalinity.	Bacteria per c.
Jan. 30	v. sl.	v. sl.	.77	5.30	1.90	3.40	.0018	.0190	.0178	.0012	. 63	.011	.0000	.83	.79	.40	900
Feb. 24	v. sl.	v. sl.	.46	4.70	1.55	3.15	.0026	.0118	.0112	.0006	.62	.021	.0000	. 50	.79	.45	4464
Mar. 24	v. sl.	v. sl.	.63	3.75	1.60	2.15	.0008	.0144	.0142	.0002	. 52	.010	.0000	.77	.71	. 30	348
April 28	sl.	dist.	.77	4.65	1.70	2.95	.0052	.0186	.0168	.0018	. 57	.015	.0000	.70	. 70	.41	947
May 26	sl.	sl.	.70	4.55	1.80	2.75	.0032	.0236	.0218	.0018	. 60	.011	. 0000	.81	1.03	. 59	231
June 24	dec.	sl.	.96	4.85	1.90	2.95	.0014	.0224	.0204	.0020	. 49	.006	.0000	.74	.79	. 60	2398
July 28	sl.	sl.	.80	5.05	2.05	3.00	.0046	.0236	.0210	.0026	. 54	.009	.0000	.73	. 55	.40	109
Aug. 25	sl.	sl.	.65	4.80	1.70	3.10	.0010	.0282	.0228	.0054	. 56	.010	.0000	.73	.71	.70	788
Sept. 22	v. sl.	v. sl.	.75	5.30	1.65	3.65	.0016	.0248	.0230	.0018	. 53	.004	0000ء	.72	. 63		289
Oct. 31	sl.	sl.	.71	5.50	1.40	4.10	.0036	.0196	.0182	.0014	.71	.006	.0000	.72	.86	. 55	
Nov. 24	v. sl.	sl.	.65	4.95	1.30	3.65	.0026	.0210	.0184	.0026	.68	.006	.0000	.72	.71	. 50	98
Dec, 29	v. sl.	sl.	1.10	5.60	2.15	3.45	.0030	.0244	.0236	.0008	. 66	.013	.0000	1.18	1.11	.31	8370
Yearly avg	sl.	al.	.75	4.90	1.70	3.20	.0029	.0210	.0191	.0019	. 59	.010	.0000	.76	.80	.45	1722

Chemical and Bacteriological Examination of the Water Supply of the District of Narragansett, the sample being taken from the tap in the Office of the Water Company.

	Агг	EARAN	CE.	ON	ESID Eva atio:	P# >-		Аммо	ONIA.				IRO~				
DATE OF				1	ė			All	umino	id.				aed.			e i
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension,	Chlorine.	As Nitrates.	As Nitrites,	Oxygen Consumed.	liardness.	Alkalinity.	Bacteria per c.
Jan. 30	v. sl.	v. sl.	.71	5.15	1.90	3.25	.0012	.0172	.0162	.0010	. 65	.011	.0000	.74	. 79	4.5	135
Feb. 25	v. sl.	v. sl.	.41	4.65	1.80	2 85	.0010	.0114	0102	.0012	. 60	.027	.0000	45	.95	. 48	38
Mar. 24	v. sl.	v. sl.	.62	4.10	1.80	2 30	0010	.0118	.0116	.0002	. 53	.010	.0000	68	.71	. 30	57
April 28	sl.	v. sl.	.71	3.95	1.55	2 40	0008	.0158	0156	.0002	. 57	.015	.0000	.72	.70	43	52
May 26	sl.	sl.	.68	4 25	1_40	2 85	_0012	.0192	0162	.0030	. 63	011	0000	.70	.95	60	197
June 24	dec.	sl.	.96	4 75	1 75	3 00	0008	0220	0198	0022	. 56	008	.0000	76	.95	65	101
July 28	sl.	sl.	.90	5.25	1 <u>S</u> 5	3 40	0016	.0220	0208	.0012	.51	008	.0000	.77	.71	40	2192
Aug. 25	dist.	sl.	.75	4 80	1 70	3 10	.0008	.0260	0214	0046	58	.015	0000	73	.87	.50	315
Sept. 22	sl.	sl.	.75	5.35	1.80	3.55	0010	0198	0194	0004	. 57	.007	.0000	. 64	70		2542
Oct. 31	sl.	v. sl.	.90	6 05	2 10	3 95	_0014	.0198	.0196	0002	.73	007	0000	.87	79	50	*1754
Nov. 24	v. sl.	sl.	. 65	4.75	1 35	3.40	.0010	.0166	.0158	.0008	.71	007	.0000	. 66	79	55	3
Dec. 29	v. sl.	0	1.06	5.65	2 35	3.30	.0014	.0224	.0224	,0000	.68	.017	.0000	1 09	1 27	35	334
Yearly avg	sl.	v. sl.	.76	4.90	1.80	3.10	.0011	0187	.0174	0013	.61	.012	.0000	73	. 5.5	.45	646

^{*}Stood 4 days.

Chemical and Bacteriological Examination of a Water Supply in the District of Narragansett, taken from a supply known as the Gladstone Spring, the same being located at Narragansett Pier.

	Арр	EARAN	CE.	ON	ESID Eva	PO-		Амм	ONIA.				rro- EN.				
DATE OF					ion.			All	oumine					umed.			ر. د.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
July 28	0	0	0	7.00	1.40	5.60	.0002	.0022			1.22	.070	.0000	. 02	2.28	1.00	Lost
Aug. 25	0	0	0	7.35	1.85	5.50	.0000	.0010			1.20	. 132	.0000	.01	2.08	.90	94
8ept. 22	0	0	0	7.00	1.25	5.75	.0006	.0012			1.20	.076	.0000	.03	2.21		*
Yearly avg	0	0	0	7.10	1.50	5.60	.0003	.0015			1.21	.093	.0000	. 02	2.20	.95	

^{*} Too numerous.

Chemical and Bacteriological Examination of the Water Supply of the District of Narragansett, Giving the Average for the Years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		1		_	4 00				-						
		ON	ESID EVA	PO-		Аммо	NIA.				RO-				
DATE OF						Alb	uminoi	id.				. pa			٠
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Narragansett Pier,															
Pumping Station—															
1900	92	5 10	2.00	3.10	.0022	0256	0205	.0051	. 60	006	.0000	88	80	.70	153
1901	85	5 35	2 25	3.10	.0022	0257	.0223	.0034	.57	.006	.0000	.94	90	.50	101
1902	75	4 90	1 70	3 20	.0029	.0210	.0191	0019	. 59	010	0000	76	.80	45	172
Narraganset Pier,															
Office Water Co.—															
1900	87	5.00	1 90	3 10	0007	0196	0166	0030	.60	007	0000	77	85	70	165
1901	88	5 40	2 20	3 20	.0005	0205	0188	0017	.59	007	,0000	.87	1 15	70	150
1902	76	4 90	1.80	3 10	0011	.0187	0174	.0013	.61	012	,0000	.73	85	45	64

Chemical and Bacteriological Examination of the Water Supply of the City of Newport, the sample being taken from the South Reservoir at the Intake.

	Аррі	EARANG	E.	ON	ESIDU EVA	PO~		Амма	NIA.				TRO-				
DATE OF					٠:			Alb	umino	id.				ed.			ć.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 13	dist.	sl.	. 32	8.10	2.40	5.70	.0146	.0430	.0318	.0112	1.45	.058	trace.	.68	2.67	1.60	1922
Feb. 11	dist.	sl.	. 29	8.40	2.50	5.90	.0016	.0498	.0314	.0184	1.55	.053	.0000	. 67	2.60	1.60	262
Mar. 10	dec.	dist.	.31	7.35	2.85	4.50	. 0100	.0436	.0342	.0094	1.08	. 105	.0002	. 59	2.21	.90	8618
April 7	dec.	dist.	. 27	7.70	2.30	5.40	. 0034	. 0434	.0344	.0090	1.25	. 127	.0006	. 65	2.67	1.19	501
May 12	dec.	dec.	. 37	7.50	2.40	5.10	.0042	.0566	.0392	.0174	1.40	.022	.0014	.67	2.73	1.80	27
June 9	dec.	dec.	. 34	8.20	2.95	5.25	.0016	.0526	.0354	.0172	1.45	.003	,0000	. 65	2.60	1.89	3224
July 7	dist.	dec.	. 25	8.00	2.60	5.40	.0020	.0504	.0406	.0098	1.55	.005	.0000	. 58	2.47	1.90	320
Aug. 4	dist.	dec.	. 21	9.10	4.60	4.50	.0040	. 1048	. 0544	. 0504	1.33	.003	.0000	, 69	2.41	1.90	1714
Sept. 8	sl.	sl.	. 20	10.35	4.00	6.35	.0016	.0514	.0426	.0088	1.75	.005	.0000	. 66	2.47	2.00	446
Oct. 13	v. sl.	sl.	. 15	9.30	3.20	6.10	.0042	.0442	. 0400	.0042	1.85	.001	,0000	. 69	2.86	2.20	331
Nov. 10	v. sl.	v. sl.	. 15	8.95	2.90	6.05	.0022	.0428	.0386	.0042	2.00	.003	.0000	. 58	2.60	1.95	424
Dec. 8	v. sl.	sl.	. 23	9.40	2.45	6.95	.0042	.0470	.0420	.0050	2.25	.005	.0000	.61	2.73	1.95	771
Yearly avg	dist.	dist.	.26	8.55	2.95	5.60	.0045	.0525	.0387	.0138	1.58	.033	.0002	. 64	2.60	1.75	1547

Chemical and Bacteriological Examination of the Water Supply of the City of Newport, the sample being taken from the tap in the Cottage of the Engineer of the Newport Water Works.

	Арры	CARANC	E.	ON	Eva	PO-		Аммо	ONIA.				TRO- EN.				
DATE OF					٠			Alb	umino	id.				ed.			ć,
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites,	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 13	sl.	sl.	30	8 65	2.95	5.70	.0222	.0370	.0312	-0058	1.59	073	trace.	. 61	2.80	1.90	1294
Feb. 11	sl,	sl.	. 29	8 45	2.75	5.70	0044	_0366	.0314	.0052	1.55	062	,0000	. 65	2.60	1.60	357
Mar. 10	dist.	sl.	25	7 05	2.20	4.85	.0106	.0352	.0294	0058	1.30	.096	.0002	.49	2.34	1.02	7254
April 7	sł.	st.	, 25	7 60	2.45	5 15	0048	.0344	0258	0086	1.55	.1-9	.0002	.58	2 67	1.10	362
May 12	dist.	sl.	. 30	7.50	2 10	5.40	.0044	.0364	.0290	.0074	1.65	047	.0002	. 52	2.86	1.80	S
June 9	dec.	dec.	. 34	8.85	2 35	6.50	.0030	.0428	.0320	0108	1 65	.017	.0000	60	2 67	1.85	1133
July 7	sl.	si.	21	8 40	2.60	5.80	.0034	.0332	.0302	.0030	1.75	016	.0000	42	2.86	1.90	830
Aug. 4	sl.	dec.	.21	10 10	3.90	6.20	.0546	.0730	.0531	.0196	1.75	015	.0006	. 59	3_12	2.30	1067
Sept. 8	sl.	sl.	. 17	10 65	3 85	6.80	.0020	.0112	.0380	.0032	1.90	.007	.0000	. 54	2 93	2.10	1493
Oct. 13	v. sl	v. sl.	. 15	9 40	2 95	6.45	.0032	0384	.0368	.0016	2.10	.012	.0000	. 65	3 12	2.30	307
Nov. 10	v. sl.	v. sl.	. 15	11 75	2_3	9.40	0024	.0376	.0346	.0030	2 25	015	.0000	.55	2 86	2 05	147
Dec. 8,	v. sl.	v. sl.	. 20	9.50	2 30	7 20	.0068	.0410	.0404	0006	2 40	017	0000	. 56	2 86	1.95	489
Yearly avg	sl.	st.	. 24	9 00	2 78	6 25	0102	0406	0314	0062	1,79	012	0001	.56	2 50	1.80	1236

Chemical and Bacteriological Examination of the Water Supply of the City of Newport, the sample being taken from the tap in the office of the Board of Health of the City of Newport.

(Parts in 100,000.)

	Appe	EARANG	E.	ON	esidu Evai	PO-		Аммо	ONIA.				TRO-				=
DATE OF					ای			Alb	uminoi	id.				ed.			ં
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 13	sl.	sl.	. 35	9.35	2.85	6.50	.0214	.0422	.0321	.0098	1.65	.073	trace.	. 63	2.99	2.15	1186
Feb. 11	sl.	v. sl.	. 29	10.35	3.25	7.10	.0048	.0414	.0300	0114	2.10	.097	.0000	. 60	2.93	1.90	487
Mar. 10	dist.	sl.	25	7 70	2.45	5.25	.0054	.0344	.0276	0068	1.40	. 100	.0004	. 50	2.54	1.08	9920
April 7	sl.	sl.	.25	9 60	2.85	6.75	.0102	. 0314	. 0252	.0062	1.55	. 129	.0006	. 56	3.19	1.61	1798
May 12	dist.	sl.	. 30	8.45	2 20	6.25	.0028	. 0350	.0266	.0084	1.65	.086	.0000	. 55	2.93	1.80	114
June 16	dec.	dec.	. 33	8.20	2.70	5.50	.0020	. 0436	.0290	.0146	1.65	.019	.0002	. 53	2.93	1.90	164
July 7	dist.	dec.	.23	9.00	2.10	6.90	.0016	0370	.0278	.0092	1.75	.018	.0000	. 45	2.80	1.95	902
Aug. 4	sl.	dec.	filt. .20	14 35	5.35	9.00	.0058	.0954	.0338	.0616	1.80	.030	.0006	.80	3.32	2.40	2914
Sept. 8	sl.	dec.	. 15	10.75	3.90	6.85	0020	.0402	.0328	.0074	1.90	.018	.0000	. 49	2.99	1.90	361
Oct. 13	v. sl.	sl.	. 15	9.85	2.60	7.25	.0022	.0424	.0340	.0084	2.08	.016	.0000	.58	3.12	2.30	140
Nov. 10	v. sl.	sl.	. 15	9.35	2.80	6.55	.0014	.0352	.0328	.0024	2.25	.016	.0000	.47	2.86	2.10	104
Dec. 8	v, sl.	v. sl.	.20	9.60	1.95	7.65	.0050	.0402	.0374	.0028	2.40	.018	.0000	.47	2.86	2.00	554
Yearly avg	sl.	sl.	.24	9.70	2.90	6.80	.0054	.0432	.0308	.0124	1.85	.052	.0002	. 55	2.95	1.90	1554

Chemical and Bacteriological Examination of the Water Supply of the City of Newport, giving the Average for the Years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		ON	ESIDI EVA	PO-		Аммо	ONIA.			N ₁₇ GE	rro-				
Date of						Alb	umino	id.				ed.			ć,
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. e
Newport, ,															
Intake-					}										
1900	39	9.50	3.15	6 35	.0056	.0560	.0372	.0188	1 80	.009	0001	. 66	2 60	2 10	1235
1901	30	9 10	3.35	5 75	.0230	.0540	.0405	.0135	1.57	.019	.0004	. 65	2.70	1.90	1820
1902	26	S.55	2.95	5.60	.0045	. 0525	.0387	0138	1.58	.033	.0002	. 64	2.60	1.75	1547
Newport,										1					
Eng. Cottage—															
1900	25	9 70	2.90	6.80	.0059	.0387	.0329	.0058	2 08	.012	0001	. 49	2.95	2 10	1755
1901	. 25	9 30	2.95	6.35	.0208	.0383	.0338	.0045	1.75	.027	.0001	.51	2 95	1 95	6162*
1902.	. 24	9 00	2.75	6 25	.0102	.0406	.0344	.0062	1 79	.042	,0001	. 56	2.80	1.80	1236
Newport,															
Board of Health—															
1900	23	10 55	3.45	7.10	.0055	.0489	.0413	_0076	2.02	.015	_0000	.58	2.95	2 05	563
1901	23	9 55	2.90	6.65	.0145	0388	.0342	.0046	1 76	029	0002	.51	3.00	2 10	2428
1992	. 24	9 70	2.90	6.80	.0054	0432	.0308	.0124	1 85	052	0002	. 55	2.95	1.90	1554

^{*} Includes one high bacteria count.

Jamestown Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Jamestown, the sample being taken from the North Pumping Station

(Parts per 100,000.)

	App	EARAN	CE.	ON	ESIDU Eva ation	PO-		Аммо	ONIA.				TRO- EN.				
DATE OF		!			نہ ا			All	umino	oid.				ed.			ë
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 7	v. sl.	v. sl.	. 35	8,20	2.65	5.55	.0032	.0146	.0144	.0002	1.50	. 176	.0000	. 54	2.60	.73	968
Feb. 10	v. sl.	v. sl.	.52	5.80	2.40	3.40	.0028	.0300	.0242	.0058	1.09	.038	.0000	. 90	1.43	.71	116
Mar. 10	v. sl.	v. sl.	. 32	4.90	1.50	3.40	.0014	.0172	.0170	.0002	.85	.052	.0000	.55	1.43	.40	3534
April 9†	v. sl.	v. sl.	.51	6.15	2.20	3.95	.0024	. 0236	.0224	0012	.73	.031	,0000	.75	1.63	. 61	4340
May 13	v. sl.	v. sl.	.63	5.65	1.90	3.75	.0050	.0306	.0278	.0028	.98	.038	.0000	. 80	1,50	.95	1637
June 9	0	0	.00	4.10	. 55	3.55	.0002	.0016	.0016	.0000	.75	. 040	.0000	.00	.95	. 3 6	*
July 7	sl.	sl.	1.10	8.80	3.35	5.45	.0044	.0526	.0444	.0082	1.10	.010	.0010	1.27	2.08	1.60	11160
Aug. 3	v. sl.	sl.	.95	10.25	5.10	5.15	.0062	.0530	.0474	.0056	1.10	.021	.0000	1.04	2.08	1.80	600
Sept. 7	dist.	sl.	.91	8.00	3.65	4.35	.0022	.0778	.0694	.0084	1.05	.008	.0000	1.17	1.27	.95	3658
Oct. 7	sl.	sl.	. 69	8.60	3.45	5.15	.0056	.0446	.0414	.0032	1.20	.050	.0002	.94	2.21	1.02	17849
Nov. 10	v. sl.	sl.	. 65	9.70	3.30	6.40	.0022	.0448	.0388	.0060	1.60	.016	.0000	.92	2.47	1.05	132
Dec. 15	v. sl.	sl.	.50	8.80	3.10	5.70	.0058	.0286	.0234	.0052	1.55	.069	trace.	.78	2.28	1.35	1452
Yearly avg	v. sl.	v. sl. to sl.	. 65	7.70	2,95	4.75	.0037	.0379	.0337	.0042	1.16	.046	.0001	.88	1.90	1.00	4131

^{*} Too numerous.

[†] This sample from a well supply not included in average.

Jamestown Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Jamestown, the sample being taken from the South Pumping Station.

	Арр	EARANC	ъ.	on 1	ESIDU EVAPO TION.	ORA-		Анм	ONIA.				PRO=				
DATE OF								Alt	oumine	oid.				ed.			ပ်
Collection	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 7	0	0	0	12.15	2.30	9.85	.0004	.0020			2.83	. 492	0000	.03	4 23	1 23	290
Feb. 10	0	0	0	12.50	3.80	8.70	.0002	.0010			3 25	.476	,0000	.01	4.16	1 10	1052
Mar. 10	0	0	0	12.50	2.70	9.80	.0002	_0020			2.95	.528	.0000	.03	4.03	1.15	839
April 9	0	0	0	12.15	4.25	7.90	.0002	.0020			2 30	.492	.0000	.05	3 90	.98	362
Mny 13	0	0	.02	10.30	2.70	7.60	.0008	.0034			2 20	.370	.0000	.09	3.64	1 00	717
June 9	0	0	0	13.90	3,90	10.00	.0004	.0028			2.80	.316	.0000	. 03	3 90	1 02	27094
July 7	0	v. sl.	. 10	14.70	4.10	10.60	.0004	0040			2 70	.264	.0002	26	4 23	7 75	1364
Aug. 3	0	v. sl.	.05	14.35	5.05	9,30	.0034	.0052			2_70	. 316	,0000	.14	4 16	1 70	656
Sept. 7	0	0	.04	13.15	4.30	8 85	0006	0030			2.93	. 353	.0000	.0%	5 43	1.50	614
Oct. 7	0	v. st.	.01	12.25	4 20	8.05	0000	.0042			2.80	. 352	.0000	08	3 97	1.40	21328
Nov. 10	0	v. sl.	0	17.30	4 95	12.35	0000	,0046			4 25	, 352	0002	.07	5 14	1 30	23746
Dec. 8	0	sl.	04	15.55	3 60	11.95	,0018	.0070			3 73	440	.0000	.00	4 57	1 15	870
Yearly avg	0	0 to v. sl.	.02	13.40	3.80	9 60	.0007	.0034			2 95	. 396	0000	05	4 30	1,25	6578

Jamestown Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Jamestown, the sample being taken from tap in the store of J. Watson, located on the distal end of the supply pipes.

	App	EARAN	CE.	on F	ESIDU VAPO TION.	ORA-		Амм	ONIA.				TRO- EN.				
Date of					ď			Alb	umino	id.				ned.			ن
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c.
Jan. 7	0	v. sl.	.44	9.10	3 10	6.00	.0010	.0166	.0156	. 0010	1.65	. 176	.0000	. 60	2.93	1.55	258
Feb. 10	v. sl.	0	.25	9.95	3.20	6.75	.0006	.0106	.0102	.0004	2.23	.273	.0000	. 34	3.25	1.20	316
Mar. 10	v. sl.	v. sl.	. 25	4.90	1.40	3.50	.0008	.0132	.0132	.0000	.85	.045	.0000	.42	1.56	.98	829
April 9	v. sl.	v. sl.	. 35	12.05	3.30	8.75	.0008	.0156	.0140	.0016	1.25	. 185	.0000	. 49	2.60	1.45	579
May 13	v. sl.	v. sl.	.45	6.80	1.90	4.90	.0008	.0216	.0196	.0020	1.25	. 210	.0000	.58	2.41	1.60	37
June 9	sl.	dec.	75	9.20	3.45	5.75	.0024	.0394	.0350	.0044	1.23	.042	.0000	1.06	2.28	1.70	liq.
July 7	sl.	sl.	.60	12.05	4.30	7.75	.0018	.0292	.0242	.0050	1.79	. 220	.0004	. 67	3.71	2.45	365 8
Aug. 4	v. si.	v. sl.	, 10	16.10	5.10	11 00	.0000	.0158	.0082	.0076	2.85	.422	.0000	. 20	4.11	1.60	*
Sept. 8	sl.	dec.	.90	8.80	4.20	4.60	.0030	.0838	. 0690	.0148	1.10	.013	.0000	1.27	1.56	1.20	610
Oct. 7	sl.	sl.	.75	8.85	3 75	5.10	.0018	.0452	.0418	.0034	1.12	.055	.0000	.89	2.41	1.55	6682
Nov. 10	v. sl.	sl.	.68	9.80	2.85	6.95	.0026	.0446	.0378	.0068	1.88	.015	.0000	1.00	2.86	1.45	707
Dec. 8	v. sl.	v. sl.	.66	10.10	2.45	7.65	.0028	.0286	.0274	.0012	1.58	.063	.0000	.93	3.12	1.48	832
Yearly avg	v. sl.	sl.	52	9.80	3.25	6.55	.0015	.0303	.0263	.0040	1.57	.143	.0000	.70	2.75	1.50	1451

^{*} Too numerous.

Jamestown Water Supply.

Chemical and Bucteriological Examination of the Water Supply of the Town of Jamestown, Giving the Average for the years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		on	EVA	PO-		Амме	onia.	,			IRO- EN.				
DATE OF						Alb	umino	id.				ed.			٥.
Collection.	Color.	Total.	Loss on Ignition.	Fixed	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bucteria per c. c
Jamestown,															
No. Pump'g Sta'n-										-					
1900	. 63	9 65	3 10	6.50	.0035	. 0336	.0269	0067	1 27	071	,0001	.77	2 25	1.05	4794
1901	.86	8 25	3 45	1 80	.0035	.0441	0409	_0032	1.32	020	,0000	1_16	1 90	.90	2176
1902	6.5	7.70	2 95	4,75	.0037	. 0379	0337	.0042	1 16	016	(0001	.55	1.90	1 00	4131
Jamestown, So, Pump'g Sta'n—															
1900	.03	10.25	2.95	7.30	0001	0030	0029	(x)()]	2 02	243	,0000	05	3 50	1.50	542
1901	.08	12 40	4.10	S 30	.0006	.0067	0063	0004	2 29	. 335	0001	. 14	4 ()()	1 30	925
1902	02	13.40	3 80	9.60	, (XXX)7	.0031			2 95	396	(0000	.05	4-30	1 25	6578
Jamestown,															
Watson's Store—															
1900,	44	10.35	2 90	7,45	0010	.0202	0194	0005	1,60	105	0000	. 52	3 40	2 10	723
1901	45	10 35	3 60	6.75	.0014	0226	.0210	0016	1 75	177	0001	.60	3 30	1 75	11016
1902	.52	9 80	3 25	6 55	0015	.0303	.0263	.0040	1 57	143	0000	70	2 75	1.50	1451

Westerly Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Westerly, the sample being taken from the Pumping Station of the Westerly Water Works.

(Parts in 100,000.)

	Аррі	EARANG	CE.	ON	ESIDU EVA ATIO	PO-		Аммо	ONIA.			Nı'.	rro- en.				
DATE OF					1.			Alb	umino	id.				ed.			°.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c.
Jan. 1	0	0	0	5.45	.95	4.50	.0000	.0014			.58	. 056	. 0000	0	2.02	1.60	
Feb. 3	0	0	0	5.20	.85	4.35	.0002	.0012			. 59	.060	.0000	0	2.08	1.50	Lost.
Mar. 3	0	0	0	5.10	.60	4.50	.0004	.0018			.58	.058	.0000	0	2.08	1.50	5
April 1	0	0	0	5.25	1.10	4.15	.0000	.0020			. 57	.056	.0000	0	1.95	1.50	1
May 6	0	0	0	5.05	.80	4.25	.0004	.0018			. 57	.056	.0000	0	2.15	1.50	54
June 3	0	0	0	4.85	1.05	3.80	.0004	.0010			. 57	.066	. 0000	0	2.08	1.50	
July 1	0	0	0	5.05	1.05	4.00	.0004	.0016			. 57	.050	.0000	0	1.95	1.40	4
Aug. 1	0	0	0	5.20	1.45	3.75	.0004	.0010			. 56	.042	.0000	0	1.95	1.40	
Sept. 2	0	0	0	5.00	. 65	4.35	.0000	.0014			. 53	.040	.0000	0	1.82	1.10	
Oct. 6	0	0	0	5.10	.65	4.45	.0002	.0012			. 56	.036	.0000	0	1.95	1.55	123
Nov. 10	0	0	0	5.85	1.05	4.80	.0000	.0020			. 56	.042	.0000	.01	1.76	1.60	3 8
Dec. 1	0	0	0	5.20	.60	4.60	.0000	.0016			. 57	.032	. 0000	0	1.69	1.60	7
Yearly avg	0	0	0	5.20	.90	4.39	.0002	.0015			.57	.050	.0000	0	1.95	1.50	33

Westerly Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Westerly, the sample being taken from the tap at the Drinking Fountain at the Railroad Station.

	Аррі	EARAN	CE.	on	ESID EVA ATIO	PO-		Аммо	ONIA.				ro-				
DATE OF								All	umin	id.				ed.			
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates,	As Nitrites.	Oxygen Consumed.	Hardness.	Alkadinity.	Bacteria per c. c.
Jan. 1	o	O	0	5 25	1 20	4 05	.0002	.0012			.58	056	0000	0	2.02	1 60	
Feb. 3	o	O	0	5.20	1 00	4 20	.0002	.0012			.58	.060	.0000	0	2.08	1.50	Lost.
Mar,3	U	U	0	5.05	, 55	4 50	.0002	.0018			. 58	.058	.0000	0	2 08	1.50	3
April 1	U	o	0	5.10	.90	4.20	.0000	0022			. 57	,056	.0000	0	1.95	1.50	3
May 6	0	U	0	4.80	1 25	3 55	.0000	.0018			.58	056	.0000	0	2 15	1 50	2
June 3	ō	θ	0	1.70	.95	3.75	.0000	.0014			.57	062	.0000	0	2.03	1.50	313
July 2	0	U	0	.5 05	1.05	4.00	0000	.0022			.57	.050	.0000	0	1.95	1.40	18
Aug. 1	0	σ	0	5 20	1 40	3.80	0002	.0010	. .		. 56	042	.0000	0	1.95	1 40	65
Sept. 2	0	0	0	5 00	60	4 40	.0000	0014			.53	040	.0000	0	1.82	1.10	
Oct. 6	0	0	0	5 20	.80	4 40	.0000	.0012			. 55	036	,0000	0	1.95	1 55	90
Nov. 10	ō	υ	0	5 60	1 10	4 50	.0000	_0018			. 56	042	,0000	.01	1.82	1.64	19
Dec. 1	O	U	0	5 00	. 65	4 35	,0000	.0010			.57	.032	.0000	0	1 69	1.60	:
Yearly avg	0	. 0	0	5.10	. 95	4 15	.0001	.0015	,		.57	.049	,0000	0	1 95	1 50	5.

Westerly Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of Westerly, Giving the Average for the Years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		ON	ESID EVA ATIO	PO-		Амм	ONIA.				rro- en.				
Date of						Alb	umino	id.				ed.			ં
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c
Westerly.															
Pumping Station—															
1900	0	5.30	1.25	4 05	.0000	.0016			. 59	.056	.0000	.01	1.80	1.50	1130
1901	0	5 40	1 25	4.15	.0001	.0016			.58	.059	.0000	.01	2.00	1.55	96
1902	0	5 20	90	4.30	.0002	.0015			. 57	.050	.0000	0	1.95	1.50	33
Westerly,															
Drinking Fountain—															
1900	0	5.35	1.25	4 10	.0000	.0014			. 59	.056	.0000	0	1.80	1.45	340
1901	O	5.45	1.25	4.20	.0001	.0015			.58	. 059	.0000	.02	2.00	1.55	520
1902	0	5.10	.95	4.15	.0001	.0015			. 57	.049	,0000	0	1.95	1.50	58
		1	1	1									1	1	

East Providence Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of East Providence, the sample being taken from the Ten Mile River, at the Pumping Station at Hunt's Mills.

	Аррі	EARANG	e.	0.2	ESIDU Eva atio	PO=		Аммо	NIA.				TRO-				
Date of								Alb	umino	id.				ed.			c,
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 1	dist.	sl.	.71	4.95	1.95	3 00	.0045	0204	0200	0004	. 42	.016	.0004	85	1 35	43	2542
Jan. 7	v. sl.	sl.	. 59	5 85	1.95	3 90	.0090	0162	.0156	.0006	. 53	.028	0006	71	1.82	.60	958
Jan. 15	v. sl.	ısl.	44	6_55	1.75	4 80	.0160	_0156	.0142	.0014	.75	.035	.0016	.58	1.95	.91	1239
Jan. 22	v. sl.	v. sl.	41	6,65	1.95	4 70	.0192	.0160	.0144	-0016	. 66	050	0006	.58	2 08	.75	5952
Monthly avg	si.	sl.	.54	6.00	1 90	4 10	.0123	.0170	.0160	0010	. 59	.032	0008	. 68	1.80	.67	2673
Feb, 4	sl.	sl.	44	5.35	1.65	3.70	.0118	.0160	.0154	.0006	58	035	0010	.58	1.82	.70	2666
Mar. 5	v. sl.	v. sl.	37	3.30	1.15	2.15	.0028	0178	.0154	.0024	. 27	.015	.0002	61	1.27	.29	6448
April 2	sl.	sl.	. 66	5.00	2 00	3_00	.0024	.0224	.0212	.0012	.50	.016	,0000	.77	1.76	.71	91
May 2	sl.	sl.	.70	6.60	1.85	4.75	.0030	.0290	.0254	.0036	54	.025	.0004	.93	1 82	.80	3906
June 3	sl.	dec.	. 56	5.85	1.70	4_15	.0020	.0258	.0200	.0058	. 65	.026	.0004	67	2 08	1 23	355
July 2	v. sl.	v. sl.	. 50	6 15	2 20	3.95	.0028	.0244	.0222	0022	. 62	010	.0004	.59	1 82	98	191
Aug. 1	sl.	sl.	. 50	6.55	2.35	4 20	.0008	.0306	.0224	0082	73	.011	.0002	.63	2 03	1 10	339
Sept. 3	v. sl.	al.	. 32	6.90	1.40	5.50	.0032	.0234	.0186	0048	.88	.010	.0000	40	2 08	1 30	549
Oct. 2	sl.	s1.	25	7.35	1.05	6.30	.0064	0184	.0156	0028	1 01	020	0000	42	2 47	1 40	565
Nov. 5	sl.	dec.	60	9_10	3.05	6 05	.0058	.0320	.0222	.0098	94	.031	-0010	.79	2_34	.81	847
Dec. 1	dist.	sl.	. 50	7 75	1,70	6.05	.0092	.0246	.0232	.0014	94	.025	.0016	.55	2.05	.79	2232
Yearly avg	sl,	sl.	.50	6 25	1.85	4.40	.0066	.0222	.0191	.0031	67	024	.0006	.65	1.90	.83	1925

East Providence Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of East Providence, the sample being the Effluent of the Mechanical Filter, at Hunt's Mills.

(Parts in 100,000.

	Арр	EARAN	CE.	ON	ESID EVA	PO-		Амм	ONIA.				TRO- EN.				
DATE OF								All	bumin	oid.				ed.			
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Alkalinity.	Bacteria per c. c.
Jan. 1	0	0	.20	4.90	1.55	3.35	.0050	.0092			.41	.016	.0001	.41	1.95	.30	131
Jan. 7	0	0	. 10	5.40	1.25	4.15	.0084	.0074			.47	.027	.0006	.25	2.21	.26	22
Jan. 15	0	0	.05	6.60	.90	5.70	.0148	.0066			.70	.040	.0016	. 17	2.47	.03	23
Jan. 22	0	0	.05	6.80	1.45	5.35	.0188	.0046			. 63	.025	.0006	.12	2.47	.09	2
Monthly avg	0	0	. 10	5.93	1.29	4.64	.0118	.0070			. 55	.027	.0008	. 24	2.28	.11	45
Feb. 4	0	0	.05	5.00	1.20	3.80	.0098	.0064			.49	.035	.0010	.15	1.95	.02	8
Mar. 5	0	0	.05	3.85	1.05	2.80	.0028	.0036			.25	.014	.0002	.22	1.82	.44	471
April 2	0	0	.05	4.50	1.05	3.45	.0010	.0080	ļ ,		. 45	.016	.0002	.15	1.82	.02	1
May 2	0	0	.05	5.00	. 65	4.35	.0028	.0082			.49	.017	.0006	. 20	2.08	. 10	15
June 3	0	0	.07	5.40	1.35	4.05	.0012	.0100			.61	.018	.0006	. 21	2.15	.47	16
July 2	0	0	.04	6.15	1.35	4.80	.0028	.0088			.71	.015	.0006	.14	2.08	.24	4
Aug. 1	0	0	.05	6.45	1.85	4.60	.0004	.0088			.72	.012	.0002	.16	2.21	. 35	22
Sept. 3	0	o	.03	7.10	1.10	6.00	.0014	.0066			.88	.010	.0000	.10	2.34	. 20	2
Oct. 2	0	0	.03	7.45	.75	6.70	.0058	.0060			1.01	.020	.0006	.09	2.60	.55	0
Nov. 5	0	0	. 10	7.75	2.20	5.55	.6050	.0096			.91	031	.0008	. 25	2.60	.08	23
Dec. 1	0	0	.05	7.55	1.10	6.45	.0080	.0092			.94	030	.0016	. 17	2.55	.02	30
Yearly avg	0	0	.06	6 00	1.25	4.75	.0059	.0077			.64	. 022	. 0006	. 19	2.20	. 10	51

Test for alum negative to plus.

East Providence Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of East Providence, Giving the Average for the Years 1900-1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		ON	ESID EVA ATIO	PO=		Аммо	ONIA.				rro- en.				
Д ате оғ			٠			All	oumino	id.				ed.			
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c
East Providence, Pumping Station—															
1900	.58	6.50	2.00	4.50	.0026	.0234	.0205	.0029	. 69	.017	.0003	. 58	1.85	1 10	730
1901	.51	6.60	2.10	4.50	.0074	.0233	.0209	.0024	.76	.030	.0008	58	2 10	.95	5591
1902	. 50	6.25	1.85	1.40	.0066	.0222	.0191	.0031	.67	.024	.0006	.65	1.90	.85	1925
East Providence, Mechanical Filter—															
1900	08	6.15	1.65	4 50	0022	0086			66	018	.0003	18	2 10	.35	18
1901	05	6 50	1.50	5 00	.0067	0084			.73	026	0008	17	2 35	.20	34
1902	06	6 00	1.25	1 75	.0059	.0077			64	022	0006	19	2.20	. 10	51

New Shoreham Water Supply.

Chemical and Bacteriological Examination of the sample taken from Fresh Pond*, in the Town of New Shoreham.

	Арр	EARAN	CE.	ON	SIDU EVA:	PO-		Аммо	ONIA.				TRO- EN.				
DATE OF								Alh	umino	id.				ed.			ö
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c
Jan. 6	v. sl.	v. sl.	.05	8.40	2. 3 5	6.05	0152	.0398	.0342	.0056	2.75	.002	.0000	. 42	1.43	.70	163
Feb. 4	v. sl.	v .sl.	.06	8.55	2.50	6.05	.0172	.0416	.0374	.0042	2.60	.007	.0000	. 40	1.43	.50	475
Mar. 3	v. sl.	sl.	.05	4.65	.80	3.85	.0088	.0226	.0212	.0014	1.48	.004	.0000	.22	.79	.31	
April 1	v. sl.	v. sl.	.07	7.25	2.00	5.25	.0090	.0374	.0314	.0060	2.59	.006	.0000	.44	1.34	.52	3 98
May 7	v. sl.	dec.	.07	7.95	1.65	6.30	.0054	.0386	.0346	.0040	2.60	.005	.0000	.46	1.35	. 51	
June 7	sl.	dist.	.09	9.10	2.80	6.30	.0098	.0500	.0380	.0120	2.63	.003	. 0000	. 43	1.27	. 60	Liq.
July 7	sl.	sl.	.11	8.95	3.15	5.80	.0022	.0742	.0352	.0120	2.50	.003	.0000	.40	1.27	. 55	2852
Aug. 1	dist.	sl.	.10	9,50	4.50	5.00	.0020	.0524	. 0350	.0174	2.63	.001	.0000	.35	1.69	. 55	791
Sept. 1	dist.	dec.	. 10	11.80	4.75	7.05	.0034	.0786	. 0390	.0396	2.55	.002	.0000	. 68	1,11	. 60	6570
Oct. 1	dec.	sI.	.20	10.20	4 40	5.80	.0042	.0968	.0380	.0588	2.70	.005	.0000	. 62	1.35	.70	1731
Nov. 11	sl.	sl.	.11	8.70	2.30	6.40	.0234	. 0600	.0412	.0188	2.65	.005	.0000	.42	1.43	.70	646
Dec. 1	sl.	sl.	.05	8.60	2.10	6.50	.0344	.0526	.0406	.0120	2.65	.006	.0000	.32	1.27	.80	65 8
Yearly avg	sl.	sl.	.09	8.65	2.80	5.85	.0113	. 0515	.0355	.0160	2.53	.004	.0000	.43	1.30	.60	1587

^{*} This pond not used as part of the supply.

New Shoreham Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of New Shoreham the sample being taken from Sands' Pond, at the Intake.

	Арр	EARAN	ce.	ON	EVA ATIO:	PO-		Амм	IONIA,				ro- en.				
DATE OF								.111	oumine	id.				ed.			ಕ
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Hardness.	Mkalinity.	Bacteria per c. c
Jan. 6	v. sl.	v. sl.	.16	8 20	1 55	6 65	0010	.0164	0150	.0014	2,85	000	0000	.12	1 69	.70	1922
Feb. 4	v. sl.	v. sl.	.10	7.85	1.65	6.20	0006	.0150	.0136	.0014	2 85	.003	,0000	.14	1 82	55	19
Mar. 3	v. sl.	v. sl.	.10	7.60	.95	6.65	.0006	.0148	.0148	,0000	2,62	.002	,0000	.12	1.69	. 69	19964
April 1	v. sl.	sl.	.07	7.25	1.25	6.00	.0010	.0124	.0122	.0002	2 60	.021	0000	.13	2.08	81	962
May 7	v. sl.	dec.	.13	7.75	. S5	6.90	,0006	.0170	.0142	.0028	2.65	,006	.0000	.15	1 82	1 00	12028
June 7	v. sl.	v. sl.	.12	8.70	2.00	6.70	0002	0144	.0141	0000	2.70	.004	0000	. 12	1 95	1 00	134
July 7	v. sl.	sl.	.05	8.80	1.90	6.90	.0006	.0148	.0124	,0024	2.73	.003	,0000	15	1 69	70	471
Aug. 1	sl.	v. sl.	. 10	9.75	2.55	7.20	0024	.0288	.0238	,0050	2 53	,002	0000	47	2 34	60	30318
Sept 1	0	v. sl.	.07	13 75	5 55	8 20	.0005	.0250	0240	0010	5 30	.075	,0000	. 36	4 62	1 44	5456
Oct. 1	dec.	algae dec.	? iron br.	18 60	7 35	11 25	0620	2136	1344	0792	1 05	012	(N)(N)	2 22	2 21	1 65	168400
Nov. 11	v. sl.	v. sl.	. 10	9.90	1 40	8.50	0012	0170	.0160	0010	2 90	039	,0000	. 14	2 73	2 10	289
Dec. 1	0	v. sl.	12	9.25	د ا	7 60	0008	:0190	.0158	0032	2 95	04)	()()()()	.12	2 60	1.50	370
Yearly avg	v. sl.	v. sl.	. 10?	9 80	2 40	7,40	0060	.0340	0259	.0081	3 00	018	0000	.35	2 25	1.05	20028

New Shoreham Water Supply.

Chemical and Bacteriological Examination of the Water Supply of the Town of New Shoreham, Giving the Average for the Years 1900–1902, Grouped for Comparison of the Quality of the Water at Different Points of the Supply.

		ON	Eva ATION	PO-		Аммо	ONIA.				TRO- EN,				
Date of						All	oumine	id.				ed.			0
Collection.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c.
New Shoreham, Fresh Pond—															
1900	.14	8.70	2.55	6.15	.0075	.0484	.0298	.0186	2.58	.012	.0000	. 40	1.20	.65	24760
1901	.11	9.60	3.20	6.40	.0139	.0541	.0371	.0170	2.68	.004	.0001	.43	1.45	:70	12454
1902	.09	8.65	2.80	5.85	.0113	. 0515	. 0355	.0160	2.53	.004	.0000	.43	1.30	. 60	1587
New Shoreham, Sands Pond															6
1900†		13.55	4.35	9.20	.0287	. 0556	. 0455	.0101	3.62	.016	.0053*	.96	2,49	1.25	2897
1901	.24	10.00	2.40	7.60	.0026	.0282	.0222	.0060	3.08	.006	.0000	.35	2.15	.85	13206
1902	?. 10	9.80	2.40	7.40	.0060	.0340	.0259	.0081	3.09	.018	.0000	. 35	2.25	1.05	20028

^{*} All determinations 0 except one. very poor in color—not in avg.

[†] One sample very high in all determinations,

[?] One sample

Averages of Results of Chemical and Bacteriological Examinations of all the Water Supplies in the State, January to December, inclusive, for the year 1902.

(Parts in 100.000.)

	Арр	EARAN	CE.	ON	Eva ATION	PO-		Амм	IONIA.				TRO-				
					نے ا			Alt	oumin	oid.				Pod.			່ວໍ
	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c
Pettaconset	sl.	sl.	.42	5.05	1.75	3.30	.0022	.0230	.0192	.0038	. 39	.012	.0002	62	1.15	. 65	6650
Washington	v. sl.	v. sl.	. 43	3.55	1.40	2.15	.0020	.0170	.0162	.0008	.28	.005	.0002	,55	.50	. 40	633
Норе			.41	3.55	1.40	2.15	.0011	.0165	.0155	.0010	.25	.006	.0000	.56	. 55	.40	1235
Laboratory Tap		sl.	. 39	4.80	1,55	3.25	.0013	.0179	.0154	.0025	. 41	.013	. 0000	.51	1.15	.65	615
P. V. Water Co	••	v. sl.	.31	3.50	1.25	2.25	.0022	.0165	.0158	.0007	. 33	.014	.0000	. 37	.80	. 55	888
Knight's Spring	0	0	.00	6.15	2.20	3.95	.0001	.0015			.76	. 320	.0000	.00	2.00	. 30	571
Coventry Water Co	0	0	.03	1.95	.65	1.30	.0005	.0068			. 30	.004	.0000	.07	.25	. 20	2478
East Greenwich	0	v. st.	. 30	4.40	1.20	3.20	.0005	.0089	.0081	.0008	.41	.011	.0000	.36	1.35	1.05	649
Woonsocket, Res. 3	sl. to dist.	sl.	.56	3.80	2.10	1.70	.0061	.0384	.0277	.0107	. 23	.005	.0000	.71	. 55	. 40	1068
" P. Sta	sl.		. 59	4.35	1.75	2.60	.0034	.0252	.0222	.0030	. 25	.009	.0000	.67	.80	. 55	668
" Supts. Office	••	**	, 55	4.00	1.60	2.40	.0020	.0234	.0207	.0027	.25	.009	.0000	. 63	.90	. 55	1283
Pawtucket, Intake	v. sl.	44	.22	3.95	1.25	2.70	.0021	.0178	.0164	.0014	. 32	.010	.0000	. 33	1.35	.90	496
" Тар	••	v. sl.	. 22	3.80	1.20	2.60	.0016	.0126	.0120	.0006	. 32	.011	.0000	. 30	1.35	.90	526
Bristol, P. Sta	sl.	sl.	.74	10.75	3.60	7.15	.0029	.0349	.0322	.0027	2.82	.008	.0000	1.02	2.30	.85	12052
Bristol Town Clerk's Office		**	.74	11.20	3.40	7.80	.0021	.0352	.0309	.0043	2.90	.010	.0000	1.01	2.40	.95	9798
Narrag., P. Sta	**	**	.75	4.90	1.70	3.20	.0029	.0210	.0191	.0019	, 59	010	.0000	.76	.80	.45	1722
Narrag., Office Water	sl.	v. sl.	.76	4.90	1.80	3.10	.0011	.0187	.0174	0013	.61	.012	.0000	.73	.85	. 45	646

^{*} All determinations 0 except one.

Averages of Results of Chemical and Bacteriological Examinations of all the Water Supplies in the State, January to December, inclusive, for the year 1902.—Concluded.

						(1 arti	5 111 100	3,000.7									
	Appe	ARANC	E.	ON .	SIDU Evai	-09		Аммо	ONIA.				PRO-				
					.]			'Alb	umino	id.				ed.			o'
	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nttrates.	As Nitrites.	Oxygen Consumed	Hardness.	Alkalinity.	Bacteria per c. c
Newport, Easton's Pond	dist.	dist.	. 26	8.55	2.95	5.60	.0045	. 0525	.0387	.0138	1.58	.033	.0002	. 64	2.60	1.75	1547
Newport, Eng. Cottage	sl.	sl.	. 24	9.00	2.75	6.25	.0102	.0406	.0344	.0062	1.79	.042	. 0001	. 5 6	2.80	1.80	123 6
Newport, Office B'd of Health	41		.24	9.70	2.90	6.80	.0054	.0432	.0308	.0124	1.85	.052	.0002	. 55	2.95	1.90	1554
Jamestown, No. P. Station	v. sl.	v. sl. to sl.	. 65	7.70	2.95	4.75	.0037	.0379	.0337	.0042	1.16	.046	.0001	.88	1.90	1.00	4131
Jamestown, So. P. Station	0 -	0 to v. sl.	.02	13.40	3.80	9.60	.0007	.0034			2.95	. 39 6	.0000	.08	4.30	1.25	6578
Jamestown, Wat- son's Store	v. sl.	sl.	. 52	9.80	3.25	6.55	0015	.0303	.0263	.0040	1.57	. 143	.0000	.70	2.75	1.50	1451
Westerly, P. Sta	0	0	.00	5.20	.90	4.30	.0002	.0015			. 57	.050	.0000	.00	1.95	1.50	33
Westerly Drinking Fountain	0	0	.00	5.10	.95	4.15	.0001	.0015			.57	.049	.0000	.00	1.95	1.50	58
East Prov. P. Sta.	sl.	sl.	.50	6.25	5 1.85	4.40	.0066	.0222	.0191	.0031	.67	.024	.0006	. 65	1.90	.85	1925
E. Prov. Mechan- ical Filter	0	0	.06	6.00	1.2	5 4.75	.0059	.0077	,		.64	.022	.0006	. 19	2.20	.10	51
N. Shoreham In'ke	v. sl.	v. sl.	.10	9.8	0 2.40	7.40	.0060	,0340	.0259	.008	3.09	.018	.0000	. 38	2.25	1.05	20028

[?] One sample very poor in color—not included in avg.

EXAMINATION OF SEWAGE WASTES.

One of the most difficult problems which is presented for solution to boards of health is the disposal of sewage wastes. Few inland towns are so situated as to be able to discharge their crude sewage into a nearby waterway. It must be treated and purified before final disposal, or a nuisance will rapidly be created which will demand summary treatment.

A very good understanding of this subject has been established in England, and the various commissions and controlling boards are prepared to recommend methods for disposal of sewage wastes for any given town.

It so happens that the sewages of no two towns are of the same character. The size of the town, the character of the population, the introduction of manufacturers' wastes, and the presence of an ample water supply will each modify materially the density and quality of the sewage. Even the conditions of a water service which is sold by meter will cause a considerable difference in the character of the sewage.

The State of Massachusetts has for many years made a study of these variable quantities, and has published yearly most valuable data.

With the same end in view this Board has, with its increased facilities for chemical analyses, undertaken to consider the stable and the varying conditions attending the disposal of the sewage wastes of those cities in the State which have made an effort to purify their sewage before final disposal. These cities are Pawtucket, Woonsocket, and Central Falls.

All of these cities, realizing that to dispose of their crude sewage by delivering it untreated into the streams near them would sooner or later call for censure, made provision to meet the existing conditions.

The city of Pawtucket, in 1894, established a filtration system for the treatment of sewage from a certain section.

The system includes the reception of the sewage, for a period of from eight to twelve hours, in tanks 100 feet long, 30 feet wide, and 3 feet deep. Being held in one of the two tanks for such time as is required for it to flow through from one end to the other, a certain amount of sedimentation takes place, and the supernatant fluid flows over into the second tank. From this latter, at certain intervals, the fluid sewage is discharged upon sand beds, which after a certain period of rest are again dosed, or treated with another flowage.

With this experiment, the city engineer of Pawtucket, Mr. George A. Carpenter, has undertaken a series of comprehensive tests to determine the most advantageous means of treating the sewage of his city. Accordingly, in conjunction with the facilities offered by the laboratories of the board, a test was made of the efficiency of the different filters under varying conditions, different forms of filtering media were utilized, and the so-called "septic" treatment was given an extended trial.

The conditions of these various tests during the year will be found under the report of the city engineer of Pawtucket, on pages 31 to 37, inclusive. These results, also, are given in the following tables.

The plant operated by the city engineer, Mr. George A. Carpenter, with an interest and engineering accuracy of observation, has permitted the laboratory of the Board to assist in presenting much practical data for the instruction of plants of cities and towns of small size.

In continuation of the methods of purification and disposal of the sewage of Pawtucket, explained in the previous report, one of the two tanks continued in use as a septic tank during the winter months, November, 1901, to May, 1902.

The value of this process in treating this particular sewage has

been fairly satisfactory. The difficulty which arises is the too rapid accumulation of sludge, which gradually reduces the capacity and depth of the tank. As the depth of fluid content of the tank is but three feet, the accumulation of even a small layer of sludge rapidly reduces the capacity. If these tanks were seven feet in depth a longer run and longer septic action would be permitted.

The handling of the sludge is the unsatisfactory feature of the process. If it could be pumped or allowed to flow into some open sand pit removed from habitations, no difficulty would be experienced. It is possible to run it onto sand beds, but the long, slow filtration not only keeps the beds out of use but requires considerable labor in cleaning the surface after it has dried out. The most difficult and expensive method, but at times the only way, is to shovel out the sludge bodily. From its semi-solid condition and the weight of the material handled, the process is a laborious one. The sludge so removed must be composted in order to avoid the formation of a nuisance.

During the summer months, from May, 1902, through November, 1902, the two tanks were used as settling tanks merely. The sewage was allowed to flow into one tank until it was full. The second tank was then allowed to fill, at the end of which time the first tank would be drawn off onto the filter beds. This form of treatment had been in use for five years and nine months, off and on.

Detailed results of the working of the septic tanks may be found in the report of 1901, page 26.

The use of experimental tank filters by intermittent filtration through coarse material was continued. Coarse stone, chestnut size, filters of soft coal cinders and one of coke, were used. These filters were made of galvanized iron, twenty inches in diameter and six feet in height. The results of the working of these filters will be found in the previous report, and in this report on pages 36 and 37.

The need for an increased area of filtering fields has been realized and an appropriation provided to meet these conditions. At Central Falls two tanks are provided for the reception and treatment of sewage, with accompanying sand filter beds.

The septic process was used with one of the two tanks.

As will be noted by the analyses in the succeeding tables, the actual septic action on the sewage treated was at times very slight owing to the fact that the septic tank having become filled with sludge at both bottom and floating on the surface, all sewage passing through the tank went through in a continuous narrow stream which forced its way through the accumulated sludge. The results, therefore, have little value as indicating septic processes, but do show the results of failure to clean out the sludge as soon as the tank is completely filled wih solids.

To obtain the best results the sewage should be exposed to the septic conditions for a period varying from eight to twenty hours, in order that the anærobic bacteria may have sufficient time to act upon the organic matter present. In other words, a sewage entering at one end of the tank should take at least eight hours before being discharged into the dosing tank.

When the sludge was finally drawn off onto sludge filter beds it made a semi fluid mass nearly a foot deep. Some of the fluid contents filtered through the sand, but the beds soon became choked, and it was necessary to utilize a shovel so thick was the dried layer.

The method of disposal of the sewage from the city of Woonsocket is to receive the flow in a sedimentation gallery or dosing tank from which it goes onto the several beds prepared for that purpose.

Comparison of the different sewages as received for treatment shows that the heaviest sewage is supplied by the city of Central Falls, the next heaviest by the city of Pawtucket, and the least concentrated supply comes from the city of Woonsocket.

The city of Providence, having the largest amount of sewage to be disposed of, treats the same by chemical precipitation. The strength of the sewage is about the same as that of the city of Woonsocket.

The sewage is mixed with measured quantities of lime and sulphate of iron while flowing through the main outfall sewer. It then

passes through large deep eement basins while the coagulated sewage and chemicals settles or precipitates. The supernatant liquor is then flowed into other tanks for further sedimentation. The accumulated sediment or sludge is flowed into a sump well, pumped into sludge basins, and further condensed. The sludge thus obtained is forced into presses and the water squeezed through cloth. The somewhat dry cake resulting is carried by means of a small tramway to sand pits and there dumped. The possibility of utilizing this cake in the Warwick sand plains could not be realized, as the chemical composition of the material showed many lacking ingredients for a plant nutrient, and is very slow to dry out.

This is the first full year of the operation of this plant. An abbreviated account of the working of this plant will be found on pages 44 and 45 of this report, but no analyses were made by this Board during this year.

The results shown in the following tables offer an opportunity for study of methods of treatment of sewage which, if utilized, will give improvement in the character and purification of the effluent discharged into streams as compared with the sewage to be handled.

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the sewage flow as received at the purification plant.

					(11	rts in 1	100,00	0.)							
	Арі	PEARAN	KCE.		IDUE (A	ммо	NIA.			N _{IT} GE			
DATE OF				1				Albı	ımin	oid.				ed.	ઈ
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c.
Jan. 7				88.4	51.6	36.8	7.20	1.27	.70	.57	7.20		· · · · · ·	15.60	27,900,000
Jan. 23				93.2	58.8	34.4	6.80	1.22	. 59	.63	6.82			14.50	42,780,000
Monthly avg				90.8	55.2	35.6	7.00	1.25	.65	.60	7.01			15.05	35,340,000
Feb. 5				75.0	49.0	26.0	7.00	1.10	.83	.27	7.36			14.70	27,900,000
Feb. 18				104.6	64.6	40.0	9.20	1.89	.75	1,14	8.22			16.10	56,410,000
Monthly avg				89.8	56.8	33.0	8.10	1.50	.79	.71	7.79			15.40	42,155,000
March 5				93.0	62.0	31.0	9.80	1.45	.79	. 66	10.76			14.00	30,690,000
March 19				33.0	16.0	17.0	1.60	. 30	. 10	. 20	2.38			2.70	7,130,000
Monthly avg				63.0	39.0	24.0	5.70	.88	. 45	. 43	6.57			8.35	18,910,000
April 2				98.8	64.0	34.8	9.00	1.24	.73	.51	11.22			13.60	77,500,000
April 15				93.4	56.2	37.2	8.40	1.58	.76	.82	9.44			12.50	32,470,000
Monthly avg				96.1	60.1	36.0	8.70	1.41	.75	. 66	10.33			13.05	54,985,000

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the sewage flow as received at the purification plant.—Continued.

	API	PEARA	NCE.		SIDUE		A	ммо	NIA.				RO-		
DATE OF								Albi	umin	oid.				ed.	ບໍ
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free,	Total.	In Solution.	In Suspansion.	Chlorine,	As Nitrates.	As Nitrites,	Oxygen Consumed	Bacteria per e. c
May 14				94.4	58.8	35.6	7.00	1.20	. 61	. 59	11.60			10.90	15,500,000
May 28				78.4	63.4	15.0	6.20	.89	.50	. 39	9.24			12.00	22,940,000
Monthly avg				86.4	61.1	25.3	6.60	1.05	.56	.49	10.42			11.45	19,220,000
June 10-11				112.6	73.6	39.0	7.00	1.34	, 64	.70	15.58			12.70	18,600,000
July 1-2				81.8	59.2	22.6	7.00	1.03	. 53	. 50	10.98			9.30	• • • • • • • • • • • • • • • • • • • •
July 16-17				75.6	51.4	24.2	6.00	.83	.58	. 25	11.82			8.20	11,900,000
July 29-30				88.6	47.8	40.8	5.00	.91	.46	.45	9.40			7.40	9,760,000
Monthly avg				82.0	52.8	29.2	6.00	.92	.52	.40	10.73			8.30	10,830,000
Aug. 5-6				77.2	51.4	25.8	5.40	1.15	.48	.67	10.82			8.20	18 600,000
Aug. 25-26				69.2	53.6	15.6	5,60	1.01	. 44	.57	9 86			9.00	18,600,000
Monthly avg				73.2	52.5	20.7	5.50	1.08	.46	.62	10.34			8.60	18,600,000
Sept. 2-3				93.8	63.0	30.8	6.20	1.19	.62	.57	17.90			10.00	14,515,000
Sept. 16-17				101.0	57.2	43.8	7.00	1.46	.50	.96	12.06			9.90	9,300,000
Sept. 30				83.8	52_4	31.4	6.60	.95	.59	. 36	9.40			9.10	15,700,000
Monthly avg				92.9	57.5	35.4	6.60	1.20	.57	.63	13.12			9.67	13,171,667

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the sewage flow as received at the purification plant.—Concluded.

	Арі	PEARAN	ICE.		SIDUE PORATI		A	ммо	NIA.			Nit GE			
DATE OF								Alb	umin	oid.				ned.	ల
Collection.	Turbidity.	Sediment.	Color,	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Bacteria per c.
Oct. 14-15				87.4	59.4	28.0	7.80	1.44	. 63	.81	14.76			11.10	13,580,000
Oct. 29-30				99.0	59.4	39.6	6.20	1.10	.70	.40	10.28			15.40	9,340,000
Monthly avg				93.2	59.4	33.8	7.00	1.27	. 67	. 60	12.52			13.25	11,460,000
Nov. 10-11				80.0	53 .6	26.4	8.40	1.06	.57	.49	11.20			10.20	25,430,000
Nov. 25-26				100.6	61.4	39.2	6.00	1.24	.46	.78	10.04			12.80	4,060,000
Monthly avg		 		90.3	57.5	32.8	7.20	1.15	.52	. 63	10.62			11.50	14,745,000
Dec. 9-10				83.0	46.2	36.8	7.20	1.11	.63	.48	8.58			11.00	15,810,000
Dec. 23				90.4	55.8	34.6	6.40	.99	.53	.46	7.74			15.70	12,210,000
Monthly avg		,		86.7	51.0	35.7	6.80	1.05	.58	.47	8.16			13.35	14,010,000
Yearly avg				87.0	55.6	31.4	6.80	1.16	.59	.57	10.19			11.46	22,442,708

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the day flow as received at the purification plant.

					(Ia	rts in	100,00	(0.)							
	Арг	EARAN	CE.		SIDUE PORAT		A	ммо	NIA.				RO-		
DATE OF				1				Alb	umin	oid.				ed.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Bacteria per c. c.
May 14				108.4	68 6	39.8	8 40	1.32	.76	. 56	12 04			12.30	26,600,000
May 28				98.2	64.6	33 6	s 20	1.10	.58	. 52	9.80			13.00	96,100 000
Monthly avg				103 3	66.6	36.7	8 30	1.21	. 67	. 54	10.92			12.65	61,350,000
June 10-11				120.0	69.6	50.4	9.00	1.33	. 64	. 69	14.22			12.70	34,100,000
July 1-2				90.8	66.2	24.6	7.00	1.27	.68	.59	10.84			11.60	19,660,000
July 16				111 0	72.4	38.6	8 20	1.51	. 64	.87	11.60			13.30	27,280,000
July 28				124,2	70-2	54.0	8 40	1.42	. 65	.77	14.60			12.20	9,820,000
Monthly avg				108.7	69.6	39 1	7.87	1.40	.66	.74	12.35			12.37	18,920,000
Aug. 5				106.0	69 2	36.8	8.40	1.25	. 69	. 56	14.90			11.10	Lost.
Aug. 25-26				109 2	68 S	40 4	7 60	1 22	. 59	. 63	12.16			12.10	20,460,000
Monthly avg				107 6	69 0	38.6	8.00	1.24	. 64	_60	13.50			11.60	· · · · · · · · · · · · · · · · · · ·
Sept. 3				119.6	70_4	49 2	7.00	1.35	.64	.71	15 60			11.10	7,240,000
Sept. 16				118.4	68 4	50.0	9.00	1.76	.74	1.02	12.20			14 40	15,500,000
Sept. 30				101 0	76.S	24.2	10 40	1 24	.75	49	10 64			12.90	19,220,000
Monthly avg				113_0	71.9	41.1	8.80	1.45	.71	.74	12.81			12.80	13,986,667

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the day flow as received at the purification plant.—Concluded.

							100,00	.,							
	Арг	PEARAN	NCE.	i	SIDUE PORAT		A	ммо	NIA.			Nit GE	PRO-		
Date of								Alb	umin	oid.				ed.	ខំ
Collection.	Turbidity.	Sediment.	Color	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c
Oct. 14				123.4	80.0	43.4	10.00	1.74	.83	.91	19.36			17.00	12,560,000
Oct. 29				144.6	93.2	51.4	7.00	1.51	.69	.82	13.24			17.50	15,500,000
Monthly avg				134.0	86.6	47.4	8.50	1.63	.76	.87	16.30			17.25	14,030,000
Nov. 11				131.8	68.2	63.6	9.00	2.05	.87	1.18	10.98			17.00	42,780,000
Nov. 25				97.2	53.2	44.0	7.20	1.49	.57	.92	8.60			13.20	17,670,000
Monthly avg				114.5	60.7	53.8	8.10	1.77	.72	1.05	9.79			15.10	30,225,000
Dec. 9				129.2	65.0	64.2	12.00	1.94	.99	.95	12.82			15.80	16,120,000
Dec. 23. :				102.8	64.6	38.2	8.00	1.09	.66	.43	8.60			16.20	18,160,000
Monthly avg				116.0	64.8	51.2	10.00	1.52	.83	. 69	10.71			16.00	17 140,000
Yearly avg				113.9	70.0	43.9	8.52	1.44	.70	.74	12.49			13.72	24,923,125

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being taken from the night flow as received at the purification plant.

					(ra	rts III)		0.)	_						
	Apr	PEARA:	NCE.		SIDUE PORAT		A	ммо	NIA.				RO-		
Date of								Alb	umin	oid.				ed.	
Collection,	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. e.
May 14				65.6	43.8	21.8	3.60	.78	. 30	.48	10.42			7.00	10,190,000
May 28				68-4	52.0	16.4	5.00	.58	. 39	. 19	7.58			11.00	6,520,000
Monthly avg				67.0	47.9	19.1	4.30	.68	. 35	. 33	9.00			9.00	8,355,000
June 10-11				112.6	68.2	44.4	7.00	1.12	.59	.53	16.42			12.00	27,280,000
July 1-2,				67.8	52.4	15.4	6.20	.71	.48	.23	11.20			7.30	53,320,000
July 10-17				61.2	42.0	19.2	5.60	.61	. 39	.22	11.98			6.30	7,340,000
July 28-29				63.4	36.8	26.6	3.00	.51	. 32	. 19	6.58			5.50	6,750,000
Monthly avg				64.1	43.7	20.4	4.93	.61	.40	.21	9.92		•••	6.37	22,470,000
Aug. 5-6				64 2	48,8	15.4	4 80	.79	.42	.37	8.78			6.80	11,160,000
Aug. 26				60.2	46.8	13.4	4.40	.62	-48	. 14	8_94			6.70	13,640,000
Monthly avg				62.2	47.8	14_4	4 60	.71	.45	.26	8,86			6.75	12,400,000
Sept. 2	• • • • • •			81.0	58.8	22.2	5.00	.81	.51	.30	19.02			7.50	11,940,000
Sept .16				65.2	48.8	16.4	6.00	.70	.35	. 35	11.90			6.90	6,630,000
Sept. 30-31		· · · · · ·		62.2	43.2	19.0	5.60	.69	.42	.27	8.00			7.10	8,060,000
Monthly avg				69.5	50.3	19.2	5.53	.73	. 43	.30	12.97			7.17	8,876,000

Chemical and Bacteriological Examination of the Scwage of the City of Pawtucket, the sample being taken from the night flow as received at the purification plant.—Concluded.

e.	Арі	PEARAI	NCE.		SIDUE PORAT		A	ммо	NIA.				Ro-		
DATE OF								Alb	umir					med.	ö
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c.
Oct. 14-15				74.2	47.2	27.0	6.20	.81	. 60	. 21	12.20			9.50	5,530,000
Oct. 29-30				77.6	51.0	26.6	5.60	.85	. 54	.31	.9.24			12.80	6,200,000
Monthly avg				75 9	49.1	26.8	5.90	.83	.57	.26	10.72			11.15	5,865,000
Nov. 10–11				67.8	46.0	21.8	6.80	.62	.45	. 17	9.22			8.60	6,710,000
Nov. 25-26				72.8	43.6	29.2	6.00	.90	.53	. 37	7.80			10.30	11,170,000
Monthly avg				70.3	44.8	25.5	6.40	.76	.49	.27	8.51			9.45	8,940,000
Dec. 9-10				68.6	41.4	27.2	6.60	.96	.38	.58	7.62			9.80	11,780,000
Dec. 23				63.4	47.0	16.4	5.00	.54	.43	.11	6.78			10.90	1,500,000
Monthly avg.				66.0	44.2	21.8	5.80	.75	.41	. 34	7.20			10.35	6,640,000
Yearly avg				70.4	48.1	22.3	5.44	.74	.45	.29	10.22			8.59	12 101,176

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, taken from the septic tank, having been subjected to these conditions for from eight to ten hours.

					(1:	itts iii	טט,טטר	ny.)							
	Ap.	PEARA!	NCE.		SIDUE PORATI		A	ммо	NIA.				RO-		
DATE OF								Alb	umin	oid.				3d.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free,	Total.	In Solution.	In Suspension,	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Jan. 7-8				57.8	42.6	15.2	5 60	.71	. 54	. 17	7.22			10.50	9,920,000
Jan. 23-24				57 6	49.2	8.4	4 80	. 59	.45	.11	6.36			10.20	17,830,000
Monthly avg				57.7	45.9	11.8	5.20	. 65	.51	.14	6 79			10.35	13,875,000
Feb. 5				63.8	46 0	17.8	6.20	.88	. 64	.24	7.40			11.20	
Feb. 18				66.0	50.6	15.4	6.20	.92	.63	.29	8.20			11.00	23,560,000
Monthly avg				64.9	48.3	16.6	6 20	.90	. 64	. 26	7.80			11.10	
March 5-6				76.8	66.0	10.8	7.80	.97	.69	.28	10.58			13 0 0	13,640,000
Mar. 20				31.6	25.6	6.0	1.90	. 26	.22	.04	3.20			2.70	
Monthly avg				54.2	45.8	8.4	4.85	.62	.46	.16	6.89			7.85	
April 3				54 4	45.6	8.8	8.00	.78	.57	.21	8.16			7.70	19,220,000
April 16				60 0	49.8	10 2	8 20	.92	.64	.28	9.78			7 90	22,500,000
Monthly avg				57.2	47.7	9 5	8 10	.85	.61	.24	8.97			7.80	20,860,000
Dec. 9				63.2	47.2	16.0	7_00	. 69	.63	.06	9.08			9_00	13,810,000
Dec. 23				56 2	43.6	12.6	4.10	.62	.38	.24	6.00			9,60	1,050,000
Monthly avg				59.7	45.4	14.3	5.55	. 66	.51	.15	7.54			9.30	7,430,000
Yearly avg				58.7	46.6	12.1	5.98	.73	.54	. 19	7.60			9.28	15,191,250

Chemical and Bacteriological Examination of the Sewage of the City of Pawtucket, the sample being the supernatant liquor as flowing onto beds after holding sewage in settling tank.

					(14	rts in		<i></i>							
	Арі	PEARAN	CE.		IDUE PORAT		A	ммо	NIA.				ro- en.		
Date of								Albi	umin	oid.				ed.	್
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c
May 14				53.8	44.2	9.6	8.00	.97	.64	. 33	7.56			6.40	16,740,000
May 28				70.0	57.2	12.8	6.40	. 73	. 55	.18	11.24			8.90	23,560,000
Monthly avg				61.9	50.7	11.2	7.20	.85	. 60	.25	9.40			7.65	. 20,150,000
June 11				71.6	58.6	13.0	9.00	.98	. 64	.34	12.82			7.30	69,440,000
July 2				70.0	62.4	7.6	7.60	.68	.49	. 19	12.04			7.00	54,140,000
July 17				65.6	53.2	12.4	10.00	.76	.50	.26	7.96			6.10	24,560,000
July 29				75.2	59.0	16.2	8.40	.91	.52	.39	10.84			7.60	4,950,000
Monthly avg				70.3	58.2	12.1	8.67	.78	.50	.28	10.28			6.90	27,833,333
Aug. 5				73.8	61.4	12.4	8.40	.93	. 53	. 40	11.22	· · · ·		7.20	3,640,000
Aug. 26				78.8	60.4	18.4	8.20	.84	.52	. 32	12.34			8.70	9,200,000
Monthly avg				76.3	60.9	15.4	8.30	.89	.53	.36	11.78			7.95	6,420,000
Sept. 2				83.6	61.2	22.4	7.00	.95	.62	. 33	15.96			7.90	7,080,000
Sept. 16				82.0	64.0	18.0	8.00	.88	.63	.25	12.02			8.70	25,420,000
Sept. 30				75.8	60.8	15.0	9.00	.97	.60	.37	11.00			8.30	13,020,000
Monthly avg				80.5	62.0	18.5	8.00	.93	.62	.31	12.99			8.30	15,506,667

Chemical and Bacteriological Examination of the Scwage of the City of Pawtucket, the sample being the supernatant liquor as flowing onto beds after holding sewage in settling tank.—Concluded.

	Арі	PEARAN	NCE.		SIDUE (2	Амме	ONIA				rro- en.		
Date of								Alb	umir	oid.				ed.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine,	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Oct. 14				77.6	58.8	18.8	8.20	1.19	. 68	.51	11.00	. .		10.20	10,460,000
Oct. 29				83 2	61.0	22.2	5.80	.97	. 50	. 47	9.60			13.20	16,740,000
Monthly avg				80.4	59.9	20.5	7.00	1.08	. 59	. 49	10.30			11.70	13,600,000
Nov. 11				79.9	61.8	18.1	10.00	1.30	.82	.48	10.58			11.50	16,360,000
Nov. 25-26				53.0	41.4	11.6	6.00	.79	. 55	. 24	6.58			7.80	12,000,000
Monthly avg				66.5	51.6	14.9	8.00	1.05	. 69	. 36	8.58			9,65	14,180,000
Dec. 9				68.0	52.0	16.0	7.20	.90	. 63	.27	8.84			10.00	11,510,000
Dec. 23				54.6	40.6	14.0	5.60	.68	.42	.26	6.20			8.60	2,340,000
Monthly avg				61.3	46.3	15.0	6_40	.79	.53	.26	7.52			9.30	6,925,000
Yearly avg				71.6	56.4	15.2	7.80	.91	.58	.33	10.46			8.55	11,568,333

Chemical and Bacteriological Examination of the Effluent or Filtered Sewage of the City of Pawtucket, being taken from the effluent pipe from regular sands beds numbered 5-9.

(Parts in 100,000.)

	Арр	EARAN	CE.	RESIDUE ON EVAPO- RATION.				Амм	IONIA	•			ro-			
DATE OF				d				Alb	umin	oid.				ed.	ಪ	
Collection	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c	Bed No.
Jan. 5	dec.	v. sl.	.76	25.9	7.4	18.5	4.00	.1180	.1100	.0080	5.84	.70	.0300	1.54	141,400	6–7
Mar. 6	sl.	v. sl.	1.20	26.9	8.3	18.6	4.00	.1160	.1120	.0040	5.28	.51	.0220	2.28	558,000	7-8-9
April 16	sl.	sl.	. 10	54.5	17.9	36.6	1.20	.0380	.0220	.0160	7.24	.3.60	.0120	. 53	1,500	5
June 11	v. sl.	dec.	.20	61.0	26.7	34.3	1.30	.0640	.0380	.0260	11.40	4.38	.0240	.77	85,000	5
July 1	v. sl.	sl.	.26	60.0	22.1	37.9	1.10	.0400	.0400	.0000	10.96	4.66	.0040	.73	33,000	6-7
Aug. 5	dec.	dec.	.70	42.6	7.0	35.6	2.40	.1140	.0640	.0500	9.96	1.46	.0840	1.30	53,750	8-9
Aug. 26	v. sl.	dec.	.15	47.7	10.0	37.7	2.04	. 0740	.0480	.0260	11.16	2.35	.0680	1.13	156,750	7-8-9
Monthly avg	sl.	dec.	. 43	45.2	8.5	36.7	2.22	.0940	.0560	.0380	10.56	1.91	.0760	1.22	105,250	
Sept. 2	sl.	dec.	.25	57.0	17.4	39.6	1.60	. 1260	.0660	.0600	13.92	3.11	.0600	1.29	2,579,000	5
Sept. 16	v. sl.	sl.									9,92		.0240		11,500	6-7
Sept. 30	sl.	dec.	. 45	41.9	12.7	29.2	2.00	.0720	.0580	.0140	9.64	1.57	.0180	1.06	164,500	8-9
Monthly avg	sl.	dec.	. 33	50.7	14.8	35,9	1.68	.0847	.0520	.0327	11.16	2.58	.0340	1.06	918,333	
Oct. 29	sl.	dec.	br.								8.80				6,800	7-8
Nov. 11	dec.	sl.						. 1940					.0440		500	5
Dec. 23	dec.	sl.	.54	27,6	10.1	17.5	2.88	.0960	.0900	.0060	5.10	1.80	.0120	2.78	42,500	6–7
Yearly avg	sl.	sl.	.47	43.9	13.2	30.7	2.23	.0891	.0671	.0220	9.13	2.33	.0325	1.31	294,938	

Chemical and Bacteriological Examination of the Effluent or Filtered Sewage of the City of Pawtucket, being taken from the effluent pipe from regular sand beds 10 and 11.

(Parts in 100,000.)

,	Appearance.			RESIDUE ON EVAPO- RATION.				Аммс	ONIA.			NIT GE.				
DATE OF								Alb	umino	id.				ed.	ė.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bactetia per c. c.	
Jan. 8	dec.	v. sl.	ьг. 1 00	28.1	7.9	20.2	4.40	.2080	.1920	.0160	6.60	0.45	.0300	2.95	617,500	
Feb. 18	sl.	dist.	br. 1.00	31.1	7.2	23.9	5.20	.1680	. 1600	.0080	7.00	0.14	.0160	2.32	539,400	
May 28	sl.	sl.	.40	48.4	15 2	33 2	1.80	.0500	.0500	.0000	11.80	2 27	.0200	.93	Lost.	
July 16	sl.	dec.	br.	34.9	9.2	25.7	3 20	. 1020	.0900	.0120	8.80	0.19	.1200	1.50	157,500	
Oct. 14	sl.	sl.	. 25	48 4	10 6	37.8	1.60	.0700	.0600	_0100	9.62	3.50	.0200	0.97	102,000	
Yearly avg	sl.	sl.	. 66	38.2	10.0	28.2	3,24	.1196	. 1104	.0092	8.76	1.31	.0412	1.73	354,100	

Chemical and Bacteriological Examination of the Effluent of Filtered Sewage of the City of Pawtucket, being taken from the effluent pipe from regular sand beds numbered 12 and 13.

Jan. 23	sl.	v. sl.	.75	31 0	12.5	18.5	2.36	.1200	. 1020	0180	6.40	1.45	.0880 1.86	1,920,000
March 20	sl.	v. sl.	. 60	45.7	21.4	24.3	3 24	.0900	.0720	.0180	5.02	3 99	1500 1.24	150,600
April 3	v. sl.	v, sl.	.28	60.S	29.7	31.1	3.24	.0700	.0620	.0080	6.40	5_15	1300 1 02	11,100
May 14	0	sl.	, 16	52.4	19.4	33.0	1.20	.0440	.0260	01%0	5.64	4.01	0320 .81	8,000
July 29	dec.	dec.	br. .60	42.3	18.8	23.5	1.80	.1620	.0980	.0640	10.01	1 85	0440 1 48	503,000
Nov. 25	dec.	sl.	br.	41.9	12.1	29.8	3.76	.1760	.1660	0100	9 06	1.89	.0500 1.74	331,500
Yearly avg	sl.	sl.	.48	45.7	19.0	26.7	2.60	. 1103	.0877	.0226	7.09	3.06	.0823 1.36	487,367

Chemical and Bacteriological Examination of Effluent obtained from Bed 15, which is a contact bed, made of soft coke cinders, for the purpose of treating the septic sewage.

								0,000.						-	
	Арр	Appearance.			RESIDUE ON EVAPO- RATION.			Амм	IONIA.				ro-		
Date of								Alb	umino	oid.				ed.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Jan. 7	gr.	sl.	tr.	35.0	32.6	2.4	2.40	. 2520	. 2100	.0420	6.80	0.66	.0920	3.56	2,570,000
Jan. 23	gr.	sl.	.60	29.6	27.0	2.6	2.80	. 2320	.1540	.0780	5.02	0.56	. 0360	2.78	125,300
Monthly avg	gr.	sl.	. 30	32.3	29.8	2.5	2.60	. 2420	.1820	.0600	5.91	0.61	.0640	3.17	1,347,650
Feb. 5	gr.	sl.	.70	32.8	29.6	3.2	2.40	. 2320	.1760	. 0560	5,20	0.87	.0640	2.64	2,170,000
Mar. 5	dec.	sl.	tr.	45.6	38.8	6.8	2.16	. 1720	.1520	.0200	8.40	1.33	. 1040	3.20	1,457,000
Mar. 20	sl.	v. sl.	.40	20.4	19.4	1.0	0.56	.0700	.0500	.0200	2.76	0.70	.0120	.76	365,800
Monthly avg	dist.	sl.	.20	33.0	29.1	3.9	1.36	.1210	. 1010	. 0200	5.58	1.02	.0580	1.98	911,400
April 3	gr.	sl.	tr.	40.0	35.0	5.0	2.60	.2120	.1720	.0400	7.64	. 07	.0640	2.70	8,091,000
Yearly avg	gr.	sl.	.28	33.9	30.4	3.5	2.15	.1950	.1523	.0427	5.97	.70	.0620	2.61	2,463,017

 Chemical and Bacteriological Examination of Effluent obtained from Bed 17, which is a small contact bed, made of cinders, for the purpose of treating the effluent from Bed 15.

	App	Appearance.			RESIDUE ON EVAPO- RATION.			Ammonia.					RO- N.		
DATE OF								Alb	umino	id.				ed.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Jan. 7	dec.	sl.	. 55				1.10	. 1720	.1340	.0380	6.76	1.73	.0340	2,48	1,922,000
Jan. 23	dec.	v. sl.	.45				. 50	.0880	. 0680	.0200	5,54	2.03	.0380	1.08	23,500
Monthly avg	dec.	sl.	.50				.80	.1300	. 1010	.0290	6.15	1.88	.0360	1.78	972,750
Feb. 5	dec.	sl.	.45				. 61	.1200	. 1020	.0180	5.02	1.90	.0200	1.50	561,100
Feb. 18	dec.	sl.	.45				1.12	.1180	.1080	.0100	6,44	1.90	.0400	1.82	121,600
Monthly avg	dist.	sl.	.45				.87	.1190	.1050	.0140	5.73	1.90	.0300	1.66	341,350
Mar. 6	dec.	dec.	br.				1.08	. 1840	.1260	.0580	6.50	1.94	.0400	2.40	421,600
Mar. 20	sl.	dec.	. 31				.28	.0720	0460	.0260	4,20	1.16	0200	1 14	163,000
Monthly avg	dist.	dec.					.68	. 1280	.0860	.0420	5.35	1 55	.0300	1.77	292,300
April 3	dec.	sl.	.70				1_12	. 1880	.1540	.0340	7.70	1.51	.0200	2.42	4,061,000
April 16	dec.	sl.	br.				1.10	. 1960	. 1540	.0120	7.32	1.79	.0220	2 18	5,177,000
Monthly avg	dec.	sl.					1.11	. 1920	, 1540	0380	7.51	1.65	.0210	2 30	4,619,000
Yearly avg	dec.	sl.	.49				.86	. 1423	.1115	.0308	6.19	1 75	.0293	1.88	1,556,000

Chemical and Bacteriological Examination of Effluent obtained from Bed 18, which is an experimental twenty-ineh filter containing five inches of sand and receiving the effluent from Bed 15.

	Аррі	EARANG	CE.	RESIDUE ON EVAPO- RATION.				Аммо	ONIA,			Nit ge			
Date of								Alb	umino	id.				ed.	ં
Collection.	Turbidity.	Sediment.	Color.	Fotal.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c
Jan. 7	sl.	v. sl.	. 30				1.18	.0520	.0520	.0000	6.98	1.15	.0440	1.08	396,800
Jan. 23	v. sl.	trace.	. 26				1.40	.0540	.0520	.0020	5.68	1.27	.0480	.80	37,600
Monthly avg	sl.	v. sl.	. 28				1.29	.0530	.0520	.0010	6.33	1.21	.0460	.94	217,200
Feb. 5	v. sl.	v. sl.	. 30				1.20	.0560	.0560	.0000	4.72	1.36	.0100	.70	81,300
Feb. 18	sl.	sl.	. 31				1.76	.0740	.0740	.0000	6.58	0.28	.0200	1.05	80,800
Monthly avg	sl.	sl.	. 31				1.48	.0650	.0650	.0000	5.65	.82	.0150	.88	81,050
Mar. 5	dec.	iron. dec.	.46				1.96	. 1060	.0940	.0120	5.64	.78	.0300	2.38	18,900
Mar. 20	v. sl.	v. sl.	.60				1.96	.0880	.0760	.0120	6.36	. 54	.0140	1.08	144,400
Monthly avg	dist.	dist.	.53				1.96	.0970	.0850	.0120	6.00	. 66	.0220	1.73	81,650
April 3	v. sl.	v. sl.	.45	,			2.40	.0680	.0580	.0100	7.26	.78	.0080	1.03	59,500
April 16	sl.	v. sl.	iron . 40				2.20	.0920	.0720	.0200	5.78	1.70	.0600	1.00	51,900
Monthly avg	sł.	v. sl.	43				2.30	.0800	.0650	.0150	6.52	1.24	.0340	1.02	55,700
Yearly avg	sł.	sl.	.39				1.76	.0738	.0668	.0070	6,13	.98.	.0293	1.14	108,900

Central Falls Sewage.

Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the sewage flow as received at the purification plant,

					- (1:	irts m	100,00		_							
	Appearance.				SIDUE PORAT		Α	ммо	NIA.			Nm GE	RO-			
DATE OF					- rendere.			Alb	umir	oid.				ed.	ن	
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. o	
1901.																
Dec. 16				139.8	94.6	45-2	9.00	2 02	1.48	. 54	11.38			25.80	11,345 000	
1902.																
Jan. 2				169.6	104.0	65 6	15.80	2.72	1.70	1 02	15.60			24.90	11,005,000	
Jan. 16				187.8	119.6	68 2	16.00	3 85	1.90	1.95	17.16			40.40	15,438,000	
Jan. 29				140.8	113 0	27.8	12 40	2.30	1.54	.76	18.38			25.50	4,940,000	
Monthly avg				166.1	112.2	53 .9	14.73	2.96	1.71	1.25	17.05			30 27	10,394,333	
Feb. 25				100.8	78.0	22.8	11.00	2.15	1.40	.75	14 22			12 90	8,900,000	
Mar. 13		* * * * *		150.6	105 2	45 4	12 20	2,75	1.60	1.15	14 74			22 10	18,600,000	
Mar. 27				199 0	121.0	78.0	14_20	3 04	1_96	1 08	19.30			28 00	4,740,000	
Monthly avg				174 8	113.1	61.7	13.10	2.90	1.78	1.12	17.02			25 05	11,670,000	
April 9				93 0	76.6	16.4	10.00	1.58	1.36	.22	17 40			15 60	5,605,000	
April 22				147.6	9 3 .6	54 0	17.00	2.76	1.86	.90	15.82			1S 30	14,280,000	
Monthly avg				120.3	85.1	35 2	13.50	2.17	1.61	. 56	16.61			16.95	9,942,500	

Central Falls Sewage.

Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the sewage flow as received at the purification plant.—Continued.

					(1)		200,00	, ,							
	App	PEARAN	ICE.		SIDUE PORATI		A	ммо	NIA.			NIT GE	RO-		
DATE OF COLLECTION.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
May 5				213.4	131.2	82 2	15.80	3.64	2.30	1.34	17.78			29.20	14,260,000
May 22				196.0	157.2	38.8	16.60	2.41	1.50	.91	54.60			14.20	21,700,000
Monthly avg				204.7	144.2	60.5	16 20	3.03	1.90	1.13	36.19			21.60	17,980,000
June 4				144.8	102.4	42.4	13.00	1.61	1.16	.45	16.50			15.10	9,940,000
June 17				104.8	74.4	30.4	16.00	2.05	1.13	.92	13.04			12.10	19,220,000
Monthly avg				124.8	88.4	36 4	14.50	1.83	1.15	.68	14.77			13.60	14,580,000
July 3				93.8	79.8	14.0	16.20	1.53	1.00	.53	17.98			10.30	16,320,000
July 23		,		79.6	57.4	22.2	9.40	1.20	.91	. 29	12.84			8.60	12,090,000
Monthly avg		,		86.7	68.6	18.1	12 80	1.37	.96	.41	15.42			9.45	14,205,000
Aug. 6				141.8	116 4	25.4	16.40	2.05	1.21	.84	35.64			13.00	3,940,000
Aug. 27				89.0	63 4	25.6	16.80	1.20	.70	.50	14.50			10.30	Lost.
Monthly avg				115.4	89.9	25.5	16.60	1.63	.96	. 67	25.07			11.65	
Sept. 9				124.6	100 2	24.4	19.60	1.77	1.30	.47	29.20			10.20	11,570,000
Sept. 23				105.6	77.2	28.4	22.40	1.86	.88	.98	18.72			11.50	8,010,0 00
Monthly avg				115.1	88.7	26 4	21.00	1.82	1.09	.73	23.96			10.85	9,790,000

Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the sewage flow as received at the purification plant.—Concluded.

				D.:	SIDUE	O. 1.									
	App	EARAN	CE.		PORAT		ا.	Амм	ONIA.				FRO-		
DATE OF								All	umii	noid.				ned.	່ວ
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c.
Oct. 6				55.6	45.0	10.6	13.40	1.05	.85	.20	9.80			7.50	14,605,000
Oct. 20				111.6	68 2	43 4	16.00	1.90	1 46	. 44	13 02			11.20	16,120,000
Monthly avg				83 6	56 6	27 0	14.70	1.48	1.16	. 32	11.41			9 35	15,362,500
Nov. 6		• • • • • •		140 2	72 6	67.6	14.20	1.90	.78	1.12	14 82			13.60	17,360,000
Nov. 19				133.8	98.8	35 0	9.20	1.65	1.18	.47	14.98			16.30	25,420,000
Monthly avg				137.0	85.7	51.3	11.70	1.78	.98	.80	14.90			14.95	21,390,000
Dec. 4				165 4	108 4	57.0	10.80	2.44	1.39	1.05	20 40			23 60	35,650,000
Dec. 18				156.6	51.6	105.0	3.40	1.31	.53	.78	10.02			19 50	3,110,000
Dec. 31				119.8	91 4	28.4	11.20	1.81	1.21	.60	14.64			15 60	5,270,000
Monthly avg				147.3	83.8	63.5	8.47	1.85	1 04	.81	15 01			19 57	14,676,667
Yearly avg				134.8	92_3	42.5	13.77	2_10	1.32	78	18_17			17.51	13,569,520

Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the well before entering septie tank.

					(Pa	rts in	100,00	,O.)							
	Арг	PEARAN	ICE		SIDUE PORAT	- 1	A	ммо	NIA.			Nit GE	RO-		
Date of								Alb	umin	oid.				ed.	ಲೆ
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Bacteria per c. c
Jan. 16		,		132_2	98.6	33.6	16.00	2.42	1.87	. 55	16.84			20.50	12,010,000
Jan. 29				181.8	133.6	48.2	14.00	2.60	1.93	. 67	28.44	i .		25.50	12,300,000
Monthly avg				157.0	116.1	40.9	15.00	2.51	1.90	.61	22.64			23.00	12,155,000
Feb. 25				109.6	66.8	42.8	10.60	1.90	1.47	. 43	13.58			13.40	12,505,000
Mar. 13				150.6	103.2	47.4	12.80	2.50	1.57	.93	14.00			22.60	23,560,000
Mar. 27	,			171.2	119.8	51.4	14.40	2.65	1.61	1.04	26.98			23.10	19,840,000
Monthly avg				160.9	111.5	49.4	13.60	2.58	1.59	. 99	20.49			22.85	21,700,000
April 22				191.8	75.8	116.0	18.00	3.21	1.53	1.68	14.24			21.90	22.940,000
May 22				157.6	120.2	37.4	16.80	2.45	1.55	.90	34.82			17.20	24,180,000
June 4				139_2	113.6	25.6	12.00	1.38	1.06	.32	18.50			11.70	9,160,000
June 17				107.4	83.0	24.4	16.00	2.03	1.45	. 58	17.38			11.70	16,120,000
Monthly avg				123.3	98.3	25.0	14.00	1.71	1.26	.45	17.94			11.70	12,640,000
July 3				106.6	86.0	20.6	14.00	1.23	. 94	.29	25.22	. ,		9.50	
July 23				121.4	56.2	65.2	8.40	1.26	. 58	. 68	14.40			9.30	7,340,000
Monthly avg				114.0	71.1	42.9	11.20	1.25	.76	.49	19.81			9.40	
Aug. 6				133.2	109.6	23.6	17.20	1.70	1.03	. 67	33.04			12.00	Lost.
Aug. 27				93.8	68.2	25.6	18.00	1.35	.70	65	14.90			10.70	Lost.
Monthly avg				113 5	88.9	24.6	17.60	1.53	.87	. 66	23.97			11.35	

Chemical and Bacteriological Examination of the Sewage of the City of Central Fall, the sample being taken from well before entering septic tank.—Concluded.

					(1'a1	ts in	100,00	().)						-	
	Арр	EARAN	NCE.		SIDUE PORAT		A	ммо	NIA.				rro-		
DATE OF								Albi	umin	oid.				ned.	ೆ
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c.
Sept. 9				111.2	72.0	39.2	16.00	1.59	1.21	. 38	17.84			11,40	3,160,000
Sept. 23*															7,250,000
Monthly avg															5,205,000
Oct. 6				23.2	18.4	4.8	3.50	. 30	. 21	.09	2.84			2.80	3,885,000
Oct. 20				150.0	80.2	69.8	18.00	2.30	1.33	.97	14.20			15.20	17,771,000
Monthly avg				86.6	49.3	37.3	10.75	1.30	.77	. 53	8.52			9.00	10,828,000
Nov. 6				62 4	36.0	26 4	6.00	.74	. 34	. 40	8.82			6.70	8,690,000
Dec. 18				177 4	55.6	121.8	4 40	1.15	. 61	.54	10.20			19_30	6,045,000
Dec. 31	!			136 0	103 S	32.2	13 00	2 05	1.82	. 23	20.16			17.60	4,670 000
Monthly avg				156.7	79.7	77.0	8.70	1.60	1.22	38	15.18			18 45	5,357,500
Yearly avg				129.3	84 2	45.1	13.11	1.83	1.20	. 63	18 23			14.85	15,383,882

^{*} Chemical analysis lost.

Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the septic tank.

							100,00								
	Арі	PEARAN	NCE.		SIDUE PORAT		A	.ММО	NIA.				ro-		
DATE OF								Albı	ımin	oid.				ed.	
COLLECTION.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c
1901.															
Dec. 16				79.8	69.0	10.8	10.20	.85	.76	.09	16.22			10.80	2,725.000
1902.														}	
Jan. 2				96.0	80.6	15.4	11.80			.11	16.84		i	12.20	4,855,000
Jan. 16				107.0	91.2	15.8	13.00	1.46	1.17	.29	17.80			14.20	5,435,000
Jan. 29				132.4	109.6	22.8	12.20	1.12	.97	.15	29.28			15.00	5,420,000
Monthly avg				111.8	93.8	18.0	12.33	1.23	1.04	. 19	21.31	· · · ·		13.80	5,236,667
Feb. 25				91.8	77.8	14.0	9.00	1.01	.80	.21	22.18			7.80	13,855,000
Mar. 13				104.4	83.4	21.0	9.40	1.41	.74	.67	18.40			13.80	42,160,000
Mar. 27				117.2	102.0	15,2	12.60	1.59	1.30	. 29	22.20			14.00	12,355,000
Monthly avg				110.8	92.7	18.1	11.00	1.50	1.02	.48	20.30			13.90	27,257,500
April 16				94.0	84.4	9.6	13.00	1.26	1.17	.09	11.60			14.20	7,785,000
April 22				118.4	97.2	21.2	13.20	1.48	1.09	.39	27.78			12.40	5,270,000
Monthly avg				106.2	90.8	15.4	13.10	1.37	1.03	.24	19.69			13.30	6,527,500
May 5				88.8	70.2	18.6	12.60	1.11	.83	.28	18.64			9.90	4,375,000
May 22				102.6	88.4	14.2	12.40	.95	.75	. 20	20.62			10.70	3,370,000
Monthly avg				95.7	79.3	16.4	12.50	1.03	.79	.24	19.63			10.30	3,872,000
June 4				119.2	105.0	14.2	11.20	1.12	1.03	.09	37.95			9.90	4,400,000
June 17				101.0	76.6	24.4	10.80	.81	.58	.23	20.56			8.10	5,260,000
Monthly avg				110.1	90.8	19.3	11.00	.97	.81	.16	29.25			9.00	4,830,000

Chemical and Bacteriological Examination of the Sewage of the City of Central Falls, the sample being taken from the septic tank.—Concluded.

						1 (5 111									
	Арг	PEARAN	KCE.		SIDUE (A	ммо:	NIA.				RO-		
DATE OF								Albi	umin	oid.				ed.	
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free,	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
July 3				104 2	90.6	13 6	12.00	.82	.61	.21	24 10			10 20	3,410,000
July 23				156.6	123.6	33.0	14.00	1.08	. 53	. 55	42.90			9.20	1 510,000
Monthly avg				130.4	107.1	23.3	13.00	.95	.57	. 35	33 50			9.70	2 460,000
Aug. 6				124.2	104.6	19.6	12.80	.95	. 56	. 39	30.42			8,60	Lost.
Aug. 27				115.2	98.4	16.8	16.00	. 64	.58	,06	30.00			8.10	Lost.
Monthly avg				119.7	101.5	18.2	14.40	.80	.57	.23	30.21			8.35	• • • • • • • • • • • • • • • • • • • •
Sept. 9				109.8	90.8	19.0	13.40	.73	. 63	. 10	24.56			8.70	1,120,000
Sept. 23				151.4	102.8	48.6	14.00	.94	.47	. 47	32.00			10.30	8,075,000
Monthly avg				130.6	96.8	33.8	13.70	.84	.55	. 29	28.28			9 50	4,597,000
Oct. 6				88.6	69.2	19.4	13.20	.70	.52	.18	19.16			7 80	4,255,000
Oct. 20				92.0	71.6	20.4	13.00	.75	. 55	20	23 38			8 20	2,280,000
Monthly avg.:				90.3	70.4	19.9	13.10	.73	.54	. 19	21.27			8 00	3,267,500
Nov. 6				132.4	116.6	15.8	15 00	.72	,64	.08	40 10			7 90	2,835,000
Nov. 19				92.6	77.8	14.8	15.00	1.07	.75	. 32	16 30			10.80	13,640,000
Monthly avg				112.5	97.2	15.3	15.00	.90	.70	. 20	28 20			9 35	8,237,500
Dec. 4		·		92.4	76.2	16.2	13.80	.83	.56	. 27	20.10			8.50	5,920,000
Dec. 18				83.2	63 4	19.8	10.20	.98	.75	, 23	17 04			8.80	6,450,000
Dec. 31				89.4	73.0	16.4	12.60	. 69	.53	. 16	16.06			10 20	13,020,000
Monthly avg				88.3	70.9	17.4	12.20	.83	.61	. 20	17.73			9.17	8,463,333
Yearly avg				107.1	88.2	18.9	12.55	1.01	.77	.24	23.70			10 40	7,490,833

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 1-3.

				(1	arts	1n 10	0,000.								
	Арр	EARAN	CE.	ON	ESIDU EVA ATIO	PO-		Амм	ONIA.				PRO-		
Date of								All	umin	oid.				- j	
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Jan. 2	gr.	sl.	br.	52.7	21.5	31.2	5.60	. 4240	. 3200	. 1040	13.74	0.25	.0160	5.36	1,555,000
Jan. 16	gr.	sl.	br.	98.2	41.0	57.2	12.00	.8600	. 5920	. 2680	18.44	0.04	.0000	10.40	3,999,000
Jan. 29	gr.	dec.	Ы,	86.5	30.7	55.8	9.20	.7900	.7100	.0800	21.18	0.05	.0000	8.60	4,585,000
Monthly avg	gr.	dist.		79.1	51.1	48.0	8.93	. 6913	. 5407	. 1506	17.79	0.11	.0053	8.12	3,379,667
Feb. 25	gr.	si.	bl.	70.1	18.4	51.7	10.80	. 4500	. 4300	.0200	20.92	0.38	.0000	5.60	1,767,000
Mar. 27	dec.	sl.	br.	55.8	11.7	44.1	6.40	. 2440	. 2320	.0120	16.78	0.29	.0200	3.44	2,294,000
April 9	dec.	sl.	br. 1.00	64.9	13.7	51.2	6.40	. 2880	. 2600	.0280	20.20	1.31	. 1000	3.20	400,000
April 22	dec.	sl.	br.	68.5	15.2	53.3	6.48	. 3120	. 2840	.0280	21.38	0.63	.0400	3.40	165,750
Monthly avg	dec.	sl.		66.7	14.5	52_2	6.44	. 3000	.2720	.0280	20.79	0.97	.0700	3.30	282,875
May 5	dec.	sl.	br.	71.0	14.5	56.5	7.04	. 2880	. 2680	.0200	20.96	0.47	.0600	4.20	202,500
May 22	dec.	sl.	br.	91.0	3 6.8	51.2	5.12	. 3160	. 2520	.0640	20.22	0.29	.1500	7.64	66,500
Monthly avg	dec.	si.	br,	- 81.0	25.7	55.3	6.08	. 3020	. 2600	.0420	20.59	0.38	. 1050	5.92	134,500
June 4	dec.	dec.	br.	97.0	36.5	60.5	4 40	2440	2280	0160	28.90	1.08	1500	6.66	92,250
June 17	dec.	sl.	br.			60.9					23.74		.0040	2.50	482,500
Monthly avg,	dec.	dist.	br.		23.6						26.32		.0770		287,375

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 1-3.—Concluded.

	Агі	EARAS	CE.	on	EV.	APO-		Амм	IONIA.				TRO-		
DATE OF			-					All	oumin	oid.				ed.	ć.
Collection,	Turbidity.	Sediment.	Color.	Total,	Loss on Ignition	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c
July 23	v. sl.	sl.	br.	78 5	11.7	66.8	6 00	. 1220	. 1160	. 0260	27 02	1.38	. 2100	.1.84	17,500
Aug. 6	sl.	v. sl.	71	75.4	8 1	67.3	5.20	.1280	0900	.0320	25 84	.76	.0140	1.28	17,000
Sept. 9	v. sl.	sl.	47	91.0	15.8	75 2	4.20	.0800	.0780	.0020	27.18	4.11	. 0300	.94	8,500
Sept. 23†						•									7,250
Monthly avg							• • • • •								7,875
Oct. 6*												3.43			40,150
Oct. 20	v. sl.	v. sl.	39	75.0	19 5	55.5	3 20	.0590	. 0590	0000	22 60	3.59	.0200	0.79	3,500
Monthly avg												3.51			21,825
Nov. 6	0	0	20	75.3	22 0	53.3	1.20	0460	.0460	.0000	16,60	7.04	.0040	.75	21,050
Nov. 19	dec.	sl.	br.	68.2	12.8	55.4	5.12	.1860	. 1220	.0640	22.28	1.14	.0520	2.66	210,800
Monthly avg	sl.	v. sl.		71.8	17.4	54.4	3.16	.1160	.0840	.0320	19.44	4.09	.0280	1.71	115,925
Dec. 4	dec.	v. sl.	br.	70.8	13.7	57.1	6.40	. 2000	. 1060	0940	24.18	1 33	2100	2.36	775,000
Dec. 18	dec.	sl.	br.	63.4	13.0	50.4	6.00	.2480	.1780	.0700	20.38	0.84	.1500	2.56	620,000
Dec. 31	dee.	v. sl.	br.	56.5	11.5	45.0	5.60	. 1380	. 1360	.0020	16.81	0.67	0800	2 46	531,500
Monthly avg	dec.		br.	63.6	12.8	50.8	6.00	. 1953	. 1400	0553	20.47	0.95	1467	2 46	642,167
Yearly avg	dec.			78.0	20.5	57.5	6-12	2808	. 2339	. 0469	21.47	1.39	.0655	3_83	811,898

^{*} Bottle broken.

Nitrates and bacteria only.

[†] Bacteria only.

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 4-5.

	(Farts in 100,000.)														
	Арре	EARANG	Œ.	ON	SIDU EVAI	PO-		Аммо	ONIA.			Niti GE			
								Alb	umino	oid.				-j	
DATE OF					ion.									ume	. c.
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Bacteria per c.
Jan. 2	gr.	sl.	br.	48.0	14.9	33.1	5.52	.5120	. 4040	.1080	10.36	0.55	.0160	3.48	547,000
Jan. 16	"	"	br.	90.3	31.4	58.9	12.90	.7480	.7160	.0320	20.40	0.04	.0010	8.36	2,077,000
Jan. 29	**	44	br.	58.8	15.9	42.9	9.00	. 4500	. 3800	.0700	16. 3 6	0.12	.0000	4.40	798,500
Monthly avg	gr.	sl.	br.	65.7	20.7	45.0	9.14	. 5700	. 5000	.0700	15.71	5.24	.0057	5.41	1,140,833
Mar. 27	dec.	sl.	br.	61.3	17.7	43 .6	7.20	.2800	. 2320	.0480	15.92	0.11	.0020	4.44	601,500
April 9	gr.	dist.	bl.	72.8	19.7	53.1	7.60	. 3080	. 2880	.0200	21.18	0.13	.0070	3.88	247,750
April 22	dec.	v. sl.	br.	70.5	23.6	46.9	6.80	. 5200	. 4720	.0480	16.40	0.46	.0040	5.98	103,750
Monthly avg	dec.	sl.		71.7	21.7	50.0	7.20	.4140	. 3800	.0340	18.79	0.30	.0055	4.93	175,750
May 5	dec.	sl.	br.	85.5	25.4	60.1	8.32	.5080	.4800	.0280	19.46	0.22	.0120	5.96	899,600
May 22	gr.	dec.	br.	79.2	26.2	53.0	8.16	. 3400	. 2720	.0680	19.44	0.02	.0100	8.56	391,500
Monthly avg	dec.	dist.	br.	82.4	25.8	56.6	8.24	. 4240	. 3760	.0480	19.45	0.12	.0110	7.26	595,250
June 17	dec.	sl.	br.	76.2	13.1	63.1	8.00	.2440	.2160	.0280	23.70	0.09	.0080	2.88	320,000
July 3	dec.	sl.	br.	69.5	11.8	57.7	5.68	. 1520	.1480	.0040	24.28	0.17	.0160	1.33	55,000
July 23	**	44	br.	81.5	10.2	71.3	7.00	. 1260	.1120	.0140	29.92	0.34	.0140	2.04	13,500
Monthly avg	dec.	sl.	br.	75.5	11.0	64.5	6.34	.1390	.1300	.0090	27.10	0.26	.0150	1.69	34,250
Sept. 23	0	v. sl.	52	72.9	15.4	57.5	3.56	.0720	.0720	.0000	23.80	2.69	.0400	1.08	3,000
Oct. 20	v sl.	sl.	br.	72.2	10.4	61.8	5.20	.0780	.0780	.0000	25.20	0.51	.0180	1.41	2,000
Nov. 19	dec.	sl.	br.	64.5	8.8	55.7	8.00	.2160	. 1340	.0820	20.20	0.06	.0060	2.64	438,750
Dec. 4	dec.	v. sl.	br.	72.7	10.4	62.3	7.20	. 1120	. 1060	.0060	26.04	0.76	.0120	2.16	1,023,000
Dec. 18	dec.	v. sl.	br.	74.6	17.6	57.0	4.08	.2740	.1780	.0960	20.60	2.80	.0200	1.26	2,000
Dec. 31	dec.	v. sl.	br.	49.4	9.4	40.0	5.52	. 1120	. 1060	.0060	15.02	0.92	.0120	1.48	220,100
Monthly avg	dec.	v. sl.		65.6	12.5	53.1	5.60	.1660	.1300	.0360	20.55	1.49	.0147	1.63	415,033
Yearly avg	dec.	sl.	br.	70.6	16.6	54.0	7.04	.2972	.2585	. 0387	20.49	0.59	.0116	3.61	455,491

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls
the sample being taken from beds 6-7.

	Арг	PEARAN	CE.	ON	Eva Eva	\ PO~		Амм	IONIA.				TRO- EN.		
DATE OF								Ali	oumin	oid.				ed.	5
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c
Jan. 16	gr.	sl.	br.	84.7	23.7	61.0	11.00	. 5280	. 4880	.0400	23.76	0.04	. 0000	6.08	1,395,000
Jan. 29			br.	63.S	16.4	47.4	9.00	.4700	.4200	.0500	16.84	0.06	.0020	4.90	1,643,000
Monthly avg	gr.	sl.	br.	74.3	20.1	54.2	10.00	. 4990	.4540	.0450	20.30	0.05	.0010	5.49	1,519,000
Feb. 25	gr.	sl.	br	71.1	20.1	51.0	11.00	.5100	. 4900	.0209	21.00	0.06	.0030	5.20	2,666,000
Mar. 27	dec.	sl.	br.	64.7	12.7	52.0	5,76	.2400	. 2120	.0280	15,62	0.09	.0300	3.40	415,000
April 9	dec.	sl.	.86	68.6	15.7	52.9	4.48	.3800	.2760	. 1040	24.02	1.42	.2100	3.52	1,030,000
April 22				67.3	16.7	50.6	6.60	. 2920	.2480	.0440	20.18	0.41	.0300	3.22	401,000
Monthly avg				68.0	16.2	51.8	5.54	. 3360	.2620	.0740	22.10	0.92	. 1200	3.37	535,000
May 5	dec.	sl.	br.	68.1	18.6	49.5	4.80	.4400	. 3600	.0800	20.98	0.94	. 1600	4.76	237,000
May 22	dec.	sl.	br.	78.3	16.8	61.5	4.96	.4800	.4040	.0760	21.20	0.02	.0010	3.96	12,000
Monthly avg	dec.	sl.	br.	73.2	17.7	55.5	4.88	.4600	.3820	.0780	21.09	0.48	.0820	4.36	124,500
June 4	v. sl.	dec.	.45	95.0	26.6	68.4	2.80	. 1000	.0800	.0200	24.45	5.65	.0700	1.26	868,000
June 17	sl.	sl.	.27	104.5	28.9	75.6	2.84	.1200	.0920	.0280	21.32	7.87	.0500	1.06	27,600
Monthly avg	sl.	dist.	. 36	99.8	27.8	72.0	2.82	.1100	.0860	.0240	22.79	6 76	.0000	1.16	447,800

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Central Falls, the sample being taken from beds 6-7.—Concluded.

	Аррі	EARANG	CE.	ON	EVA ATION	PO-		Амм	ONIA.				RO-		
D	'							Alb	umin	oid.				d.	
DATE OF COLLECTION.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
July 3	v. sl.	v. sl.	31	103.0	42.0	61.0	2.80	.0580	.0560	.0020	21.80	7.21	.0120	1.00	4,000
July 23	v. sl.	sl.	31	94.0	21.3	72.7	4.60	.0720	.0620	.0100	25.78	5.68	.0400	1.28	2,500
Monthly avg	v. sl.	sl.	31	98.5	31.7	66.8	3.70	.0650	.0590	.0060	23.79	6.45	/0260	1.14	3,250
Aug. 6	v. sl.	v. sl.	35	79.2	14.7	64.5	3.52	.0740	.0620	.0120	23.14	4.73	.0200	0.92	8,500
Sept 9	0	v. sl.	20	90.1	23.7	66.4	3.20	.0620	.0620	.0000	20.18	5.70	.0220	0.74	68,650
Sept. 23	0	v. sl.	25	83.4	18.2	65.2	2.64	. 0520	.0520	.0000	20.60	5.59	.0400	0.92	1,000
Monthly avg	0	v. sl.	23	86.8	21.0	65.8	2.92	.0570	.0570	.0000	20.39	5.65	.0310	0.83	34,825
Oct. 6	0	sl.	21	92.6	18.8	73 S	3.20	.0520	.0500	.0020	22.58	6.22	.0300	0.79	8,700
Oct. 20	0	trace.	22	88.6	33.6	55.0	3.12	.0480	.0480	.0000	22.04	6.33	.0100	0 75	15,500
Monthly avg	0	v. sl.	22	9 0 .6	26.2	64.4	3.16	.0500	.0490	.0010	22.31	6.28	.0200	0.77	5,125
Nov. 7	v. sl.	v. sl.	50	64.2	10.4	53.8	3.20	.0700	.0640	.0060	19.00	3.05	.0300	0.96	11,850
Nov. 19	dec.	sl.	br.	72.0	22.2	49.8	5.12	.2460	.2220	.0240	20.20	3.76	. 2000	2.56	837,000
Monthly avg	sl.	sl.		68.1	16.3	51.8	4.16	. 1580	.1430	.0150	19.60	3.41	.1150	1.76	424,425
Dec. 4	dec.	v. sl.	br.	75.4	10.9	64.5	7.12	. 1520	.0980	. 0540	26.80	.03	.0000	2.20	4,054,000
Dec. 18	dec.	sl.	br.	67.6	15.5	52.1	7.20	.3240	. 1780	1460	20.98	.86	.0700	3.94	961,000
Dec31	dec.	v. sl.	br.	56.3	10.6	45.7	l		.2600				.0030	3.12	1,333,000
Monthly avg	dec.	v. sl.	br.	66.4	12.3	54.1	7.51	. 2520	. 1787	.0733	21.52	.32	.0243	3.09	2,116,000
Yearly avg	sl.	sl.		78.7	19.9	58.8	5.33	. 2295	. 1947	.0348	21.33	2.99	.0462	2.57	728,650

Chemical and Bacteriological Examination of Water taken from stream into which the Effluent of the Central Falls filter beds flow, the sample being taken from the stream at a point two hundred fifty feet below the city line.

1	Арр	EARAN	CE.	ON	ESIDU EVAF	·()-		Аммс	ONIA.			N _{IT} GE	RO- N.		
DATE OF								'Alb	umin	oid.				ed.	e.
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. e
Jan. 2	0	v. sl.	. 65	22.6	4.0	18.6	2800	0160	.0140	0020	3.74	0.89	.0100	.28	95,500
Feb. 25	sl.	dist.	.55	31 1	7.4	23.7	1.4000	.0760	0580	.0180	6.00	1.05	.0100	.98	74,600
Mar. 13	sl.	sl.	.95	26.1	6.7	19:4	. 2800	.0200	0180	.0020	3.58	. 67	.0200	.56	85,850
April 9	sl.	dist.	.66	23.9	6.6	17.3	. 3200	0260	0220	0040	3.58	.68	.0040	.40	14,700
May 5	v. sl.	sl.	.05	33.1	9.9	23 2	.0600	.0180	.0180	.0000	4 18	.93	. 1150	. 24	15,100
June 4	sl.	dec.	.45	27.5	6.8	20.7	. 4200	.0260	0220	0040	4.22	.76	.0080	.42	71,700
July 3	v. sl.	sl.	.30	29.2	10.1	19.1	. 3500	.0160	.0120	.0040	4 42	1.03	.0010	. 30	*
Aug. 6	v. sl.	sl.	, 66	30,4	7.3	23 5	.5100	.0380	0280	.0100	5.02	2 18	.0240	. 52	1,250
Aug. 27	sl.	dee.		.28.0	6.4	21.6	.4000	.0360	.0280	.0080	4.08	.80	.0070	. 53	Lost.
Monthly avg	sl.	dist.		29.2	6.9	22.3	,4550	.0370	.0280	.0090	4, 55	1.49	0155	. 53	
Sept. 9	sl.	dec.	.96	30.3	6.4	23.9	.5190	.0280	0240	.0040	5 82	.86	.0160	.58	12,276
Oct. 6	v. sl.	dec.	.55	25.4	4.2	21.2	.2500	.0520	.0340	.0180	3.20	. 36	0150	1.00	306,250
Nov. 6	sl.	dec.	. 35	27.9	8.4	19.5	.2500	.0240	.0200	0040	4.82	.96	. 0100	. 35	9,500
Dec. 4	dec.	sl.	tr.	28.5	6.6	21.9	,6500	.0260	0200	.0060	5.16	. 83	0140	. 51	179,800
Yearly avg	sl.	dist.	. 56	28.0	7.0	21.0	. 4369	. 0309	.0245	.0064	4_45	.92	.0111	. 51	78,781

^{*} Contaminated.

Chemical and Bacteriological Examination of the Sewage of the City of Woonsocket, the sample being taken from the flow in the thirty-six inch sewer.

	Аррі	EARANC	e.	on	ESIDU EVAI	PO-		Аммс	ONIA.				ro- en.		
Date of								Alb	umino	oid.				med.	5
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c.
Jan. 13				78.2	47.6	30 .6	4.60	1.02	.48	.54	5.90			10.00	4,495,000
Feb. 3				69.4	41.8	27.6	4.70	.76	.42	. 34	6.18			8.50	20,460,000
Feb. 24				127.0	68.0	59.0	5.00	1.21	. 56	. 65	19.48			12.50	2,170,000
Monthly avg				98.2	54.9	43.3	4,85	.99	.49	.50	13.33			10.50	11,315,000
Mar. 10				36.6	15.8	20.8	1.40	. 32	.16	. 16	3.78			4.80	6,830,000
Mar. 24				51.2	24.4	26.8	2.80	. 61	.31	.30	6.58			6.60	6,265,000
Monthly avg				43.9	20.1	23.8	2.10	.47	.24	.23	5.18			5.70	6,547,500
April 7				60.0	31.0	29.0	3.50	. 55	. 33	.22	8.98			7.80	4,045,000
April 21				77.9	43.8	34.1	3.90	1.22	.56	. 66	9.78			8.00	64,900,000
Monthly avg				69.0	37.4	31.6	3.70	.89	• .45	.44	9.38			7.90	52,972,500
May 12				72.4	40 .6	31.8	4.50	.98	.49	.49	7.56			9.70	12,870,000
May 26				51.8	21.4	30.4	4.00	. 62	.33	. 29	9.84			4.30	4,190,000
Monthly avg				62.1	31.0	31.1	4.25	.80	.41	.39	8.70			7.00	8,530,000

Chemical and Bacteriological Examination of the Sewage of the City of Woonsocket, the sample being taken from the flow in the thirty-six inch sewer—Continued.

(Parts in 100,000.)

13

	Арре	ARAN	E.	ON	ESIDU EVAI ATION	-0-		Аммс	ONIA.			Niti GE:			
DATE OF								Alb	umine	oid.				ed.	ü
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Bacteria per e. c
June 16				69.0	17.4	51.6	2.75	.47	.28	. 19	21.58			3.70	5,790,000
June 30				98.8	60.6	38.2	4.60	1.17	.53	. 64	7.70			12.40	8,950,000
Monthly avg	'	 		83.9	39.0	44.9	3.68	.82	.41	.41	14.64			8.05	7,370,000
July 14				126.6	56.4	70.2	4.60	1.46	.40	1.06	21.20			12.60	13,060,000
July 28				102.8	58.2	44.6	5.90	1.26	. 64	.62	13.00			10.20	6,150,000
Monthly avg				114.7	57_3	57.4	5.25	1.36	.52	.84	17.10			11.40	9,605,000
Aug. 4				96.6	56.4	30.2	4.10	1.11	. 54	.57	9.92			10.70	7,110,000
Aug. 25				76.4	58.8	37.6	5.00	1.22	.66	.56	8.20			8.90	8,520,000
Monthly avg				86.5	57.6	33.9	4.55	1.17	.60	.57	9.06			9.80	7,815,000
Sept. 15				. 88.2	49.0	39.2	6.10	1.33	.54	.79	9.22			8.50	3,840,000
Sept. 29				93.6	51.4	42.2	4.20	1.07	. 40	.67	9.10			9.20	9,650,000
Monthly avg				. 90.9	50.2	40.7	5.15	1.20	.47	.73	9.16			8.85	6,745,000

Chemical and Bacteriological Examination of the Sewage of the City of Woonsocket, the sample being taken from the flow in the thirty-six inch sewer.—Concluded.

	Аррг	CARANC	Œ.	ON	EVA.	PO-		Амм	IONIA.				TRO- EN.		
DATE OF								Alb	umine	oid				ned.	ö
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	I nSolution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c.
Oct. 13				81.8	46.8	35.0	4.50	1.07	. 42	.65	7.36	;		8.20	s12,560,000
Oct. 27				97.0	30.4	66.6	3.20	1.07	.45	.62	8.00			13.40	1,190,000
Monthly avg				89.4	38.6	50.8	3.85	1.07	.44	. 63	7.68			10.80	6,875,000
Nov. 10.,				86.6	52.8	33.8	5.00	1.12	.46	. 66	6.20			9.30	7,840,000
Dec. 8				75.4	46.2	29.2	5.50	1.12	.58	.54	7.02			10.10	7,835,000
Dec. 22				4.00	12.8	27.2	1.20	. 32	.13	.19	7.22			4.50	2,220,000
Monthly avg				57.7	29.5	28.2	3.35	.72	.36	.36	7.12			7.30	5,027,500
Yearly avg				80.3	42.3	38.0	4.14	.96	.44	.52	9.59			8.80	10 042 727

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Woonsocket, the sample being taken from beds 1-4, at the purification plant of that city.

	App	EARAN	CE.		IDUE PORAT			Амм	onia.			NIT GE				
DATE OF								Alb	umine	oid.				ed.	· ·	
Collection.	Turbidity.	Sediment.	Color.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. e	Bed No.
Jan. 13	v. sl.	v. sl.	. 21	21.5	6.3	15.2	.4000	.0520	.0520	.0000	3.96	.82	.0600	71	73,100	3
Feb. 3	v. sl.	. 0	.14	24.0	8.1	15.9	.7900	.0360	.0360	.0000	4.42	1.51	.0800	. 56	15,000	
Feb. 24	v. sl.	0	.13	37.5	11.5	26.0	. 6400	.0320	.0320	.0000	5.98	2.43	.1200	. 59	46,850	
Monthly avg	v. sl.	0	.14	30.8	9.8	21.0	.7150	. 0340	.0340	.0000	5.20	1.97	. 1000	.58	30,925	
Mar. 10	v. sl.	0	.06	25.7	8.0	17.7	.4600	.0200	.0200	.0000	2.80	1.57	. 1500	.60	16,550	2
Mar. 24	0	trace.	.06	29.1	13.0	16.1	.1000	.0360	.0360	.0000	3.20	2.19	.0120	.40	37,400	1
Monthly avg	v. sl.	trace.	.06	27.4	10.5	16.9	.2800	0280	.0280	.0000	3.00	1.88	.0810	. 50	26,975	
April 7	sl.	v. sl.	.15	23.5	6.2	17.3	.6000	.0150	.0480	.0000	5.16	5.21	.0700	.83	63,500	3
April 21	0	v. sl.	.06	67.1	33.0	34.1	.0700	.0240	.0240	.0000	5.14	6.59	.0140	.38	27,250	1
Monthly avg	v. sl.	v. sl.	.11	45.3	19.6	25.7	. 3350	.0360	.0360	.0000	5.15	5.90	. 0420	.61	45,375	
May 12	v. sl.	0	.09	32.5	10.0	22.5	.1000	.0380	.0380	.0000	5.64	1.98	.0030	.55	80,500	1
May 26	0	v. sl.	.03	69.7	24.8	44.9	. 1200	.0520	.0520	.0000	5.98	6.24	.0140	.36	1,519,000	4
Monthly avg	v. sl.	v. sl.	.09	51.1	17.4	33.7	.1100	. 0450	.0450	.0000	5.81	4.11	.0085	.46	799,750	
June 16	v. sl.	0	.11	36.5	11.3	25.2	. 2100	.0520	.0520	.0000	8.02	1.94	.0040	.55	86,000	3
June 30	v. sl.	v. sl.	.19	23.9	5.1	18.8	. 4900	.0720	.0720	.0000	7.78	0.44	.0070	.81	204,600	- 4
Monthly avg	v. sl.	v. sl.	.15	30.2	8.2	22.0	.3500	.0620	.0620	.0000	7.90	1.19	.0055	.68	145,300	
July 14	v. sl.	0	. 10	47.7	9.1	38.6	.0200	.0240	.0240	.0000	9.06	3.08	.0002	.46	20,000	2
July 28	sl.	v. sl.	. 15	29.9	7, 5	22.4	.2000	.0820	.0820	.0000	8.28	.58	.0006	.77	26,400	4
Monthly avg	v. sl.	v. sl.	. 13	38.8	8.3	30.5	.1100	.0530	.0530	.0000	8.67	1.83	.0004	.62	23,200	

Chemical and Bacteriological Examination of the Sewage Effluent of the City of Woonsocket, the sample being taken from beds 1-4, at the purification plant of that city—Concluded.

(Parts in 100,000.)

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:	Аррг	CARANC	PE.		IDUE ORAT			Амм	ONIA.			Nit GE				
Date of								Alb	umin	oid.				ed.		
Collection.	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.	Bed No.
Aug. 4	sl.	v. sl.	. 20	32.0	9.5	22 5	. 5400	.0660	.0660	.0000	9.04	.72	.0070	. 67	58,400	3
Aug. 25	sl.	v. sl.	.11	30.5	10.7	19.9	.1100	.0640	.0640	.0000	7.30	1.23	.0020	.78	68,500	4
Monthly avg	st.	v. sl.	.16	31.3	10.1	21.2	. 3250	.0650	.0650	.0000	8.17	.98	.0045	.73	63,450	
Sept. 15	0	v. sl.	.07	52.7	20.1	32.6	.0800	.0320	.0320	.0000	5.78	4.40	.0002	.48	20,000	1
Sept. 29	0	v. sl.	.06	50.1	16.3	33.8	. 1020	.0220	.0220	.0000	5.96	3.96	.0010	.40	7,000	2
Monthly avg	0	v. sl.	.07	51.4	18.2	33.2	.0910	.0270	.0270	.0000	5.87	4.18	.0006	44	13,500	
Oct. 13	v. sl.	sl.	.25	19-8	4.5	15.3	. 2700	0700	.0700	.0000	5.90	.48	.0030	.82	67,000	4
Oct. 27	sl.	v. sl.	.20	20.9	5.5	15.4	. 2000	.0720	.0720	.0000	9.12	1.14	.0010	.87	179,800	1
Monthly avg	v.sl.	v. sì.	. 23	20.4	5.0	15.4	. 2350	.0710	.0710	.0000	7.51	.81	.0020	.85	123,400	
Nov. 10	sl.	v. sl.	. 15	30.0	9.9	20.1	. 2000	.0660	.0660	.0000	5.40	1.58	.0006	.80	150,000	3
Dec. 8	· sl.	v. sl.	.25	23.0	4.4	18.6	. 3600	.0520	.0520	.0000	4.98	1.00	. 1000	.71	123,250	1
Dec. 22	v. sl.	v. sl.	.15	22.3	8.7	13.6	. 2300	.0240	.0240	.0000	4.04	1.20	,0300	.45	31,500	4
Monthly avg	v. sl.	v. sl.	.20	22.7	6.6	16.1	.2950	.0380	.0380	.0000	4.51	1.10	, 0650	,58	77,375	
Yearly avg	v. sl.	v. sl.	.13	33.6	11.1	22.5	. 2950	.0460	.0460	.0000	6.04	2.28	.0322	.62	70,659	:

Pawtucket Sewage.

Yearly Averages of the Chemical and Bacteriological Examination of the samples obtained from the Sewage Purification Plant at Pawtucket.

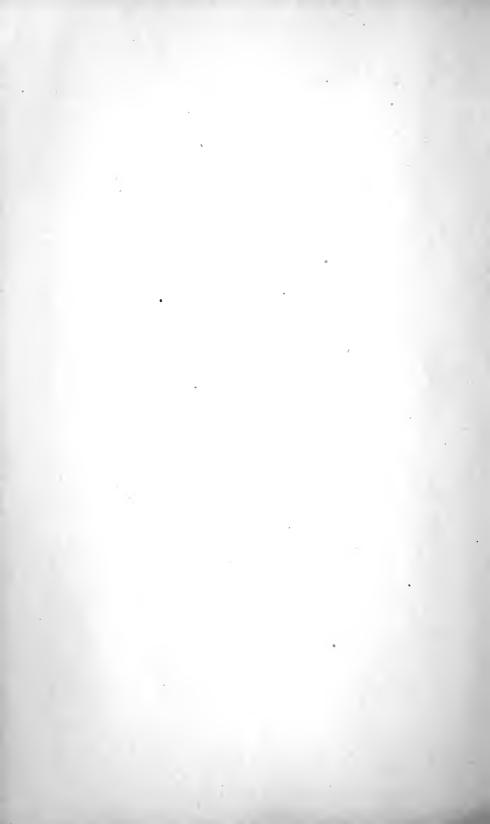
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	Арр	EARAN	CE.	ON	Esidu Eva ation	PO=		Аммо	ONIA.				FRO- EN.		
								Alb	umin	oid.				ed.	
	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Sewage				87.0	55.6	31.4	6.80	1.16	.59	.57	10.19	·		11.46	22,442,708
Sewage day flow				113.9	70.0	43.9	8.52	1.44	.70	.74	12.49			13.72	24,923,125
Sewage night flow				70.4	48.1	22.3	5.44	.74	. 45	. 29	10.22			8.59	12,101,176
Septic				58.7	46.6	12.1	5.98	.73	.54	. 19	7.60			9.28	15,191,250
Settled				71.6	56.4	15.2	7.80	.91	.58	. 33	10.46			8.55	11,568,333
					Loss on Ignition.	Fixed.									
Beds 5-9	sl.	sl.	.47	43.9		30.7	2.33	.0891	.0671	.0220	9 13	2.33	.0325	1.31	294,938
Beds 10-11	si.	sl.	. 66	38.2	10.0	28.2	3.24	. 1196	. 1104	.0093	8.76	1 31	.0412	1.73	354,100
Beds 12-13	sl.	sl.	.48	45.7	19.0	26.7	2 60	. 1103	.0877	.0226	7.09	3.06	.0823	1.36	487,367
Bed 15	gr.	sl.	.28	33 .9	30.4	3.5	2.15	. 1950	. 1523	.0127	5.97	.70	.0620	2.61	2,163,017
Bed 17	dec.	sl.	.49		. .		.86	. 1423	. 1115	.0308	6.19	1.75	. 0293	1.88	1,556,000
Bed 18	sl.	sl.	.39				1.76	.0738	.0668	.0070	6.13	.98	.0293	1.14	108,900

Yearly Averages of the Chemical and Bacteriological Examinations of the samples obtained from the Sewage Purification Plant at Central Falls.

	Аррі	EARAN	CE.	ON	ESIDU EVA	PO-		Амм	ONIA.			Nit • GE			
	Turbidity.	Sediment.	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed.	Bacteria per c. c.
Sewage				134.8	92.3	42.5	13.77	2.10	1.32	.78	18.17	.,		17.51	13,569,520
Sewage from well				129.3	84.2	45.1	13.11	1.83	1.20	. 63	18.23			14.85	15,383,882
Septic				107.1	88.2	18.9	12.55	1.01	.77	. 24	23.70			10.40	7,490,833
					Loss on Ignition.	Fixed.									
Beds 1-2-3	dec.	sl.		78.0			6.12	. 2808	.2339	. 0469	21.47	1.39	.0655	3.83	811,898
Beds 4-5	dec.	sl.	br.	70.6	16.6	54.0	7.04	.2972	.2585	.0387	20.49	. 59	.0116	3.61	455,491
Beds 6-7	sl.	sl.		78.7	19.9	58.8	5.33	. 2295	. 1947	.0348	21.33	2.99	.0462	2.57	728,650
Stream	sl.	dist.	. 56	28.0	7.0	21.0	43.69	. 0309	.0245	.0064	4.45	.92	.0111	.51	78,781

Yearly Averages of the Chemical and Bacteriological Examinations of the samples obtained from the Sewage Purification Plant at Woonsocket.

	Аррг	CARANO	CE.	ON	EVA:	PO~		Амм	ONIA			N1T GE	RO-		
								Alb	umin	oid				red.	j
	Turbidity.	Sediment,	Color.	Total.	Solution.	Suspension.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	As Nitrates.	As Nitrites.	Oxygen Consumed	Bacteria per c.
Sewage				80.3	42.3	38_0	4.14	,96	. 44	. 52	9.59			8.80	10,042,727
					Loss on Ignition.	Fixed.									
Beds 1-4	v. sl.	v. sl.	.13	33.6	11.1	22.5	. 2950	.0460	.0460	.0000	6.04	2.28	.0322	. 62	70,659



METEOROLOGY.

It has been remarked in previous reports of the Board that the influence of the meteorological conditions of the atmosphere, as well as the floating matter suspended therein, are recognized and acknowledged by all pathologists as causes of disease; and the following tables are therefore introduced, as heretofore, for the purpose of comparing the large prevalence of certain diseases, at different monthly periods of the year, with the temperature, the atmospheric pressure, the relative humidity, prevailing direction and force of the wind, and other conditions of the atmosphere, and also the amount of cloud and rain-fall during each month of the year. All of the said diseases and monthly prevalence of the same may be found in the report upon the registration of deaths arranged by months, in Table VII of the Registration Report.

The first table is compiled from the monthly reports of the city engineer of Providence, and shows the mean, maximum, and minimum temperature of the different months, and the extremes and average daily range of the same; the rain-fall, and prevailing direction of the wind.

The second table will give a more comprehensive monthly summary of observations during 1902, including a large number of atmospheric conditions for each month, and also yearly summaries for each of the twenty-one preceding years.

It is condensed from the annual summary of monthly observations at Hope reservoir and the city hall, in Providence.

Table 1.—Temperature, Range of Temperature, Rain-fall, and Prevailing Direction of the Wind for each Month during the Year 1902.

			Тем	MPERAT	URE.			or es.	OF
MONTHS, 1902.	Monthly Mean.	Maximum.	Minemum.	Monthly Range.	Greatest Daily Range.	Least Daily Range.	Average Daily Range.	Total Amount of Rain or Melted Snow in inches.	Prevalling Direction the Wind.
January	27.9	65.0	7.0	58.0	41.0	6.5	14.9	2.06*	N. W.
February	28.7	50,5	12.5	38.0	21.0	3.0	12.5	6.97*	N. W.
March	43.3	66.5	26.5	40.0	22.5	3.5	13,4	5.71	N. W. & S.
April	49.6	74.5	34.5	40.0	28.0	3,0	15.8	3.09	s.
May	59.3	91.0	`36.5	54.5	31.5	9.0	20.8	1.20	s.
June	66.8	92.5	51.0	41.5	30.0	8.5	20.0	4.17	N. W.
July	70.2	93.0	55.8	38.0	27.0	4.0	16.7	3.41	s.
August	69.5	90.5	52.0	38.5	26.0	9.5	18.2	2.39	N. W.
September	63.8	88.0	46.5	41.5	24.5	5.0	15.8	6.55	s.
October	55.0	74.0	33.0	41.0	25.5	4.0	15.4	4.57	N.
November	47.2	68.0	27.5	40.5	28.0	5.0	15,1	1.80*	N.
December	30.6	56.5	-6.0	62.5	33.0	5.5	16.3	6.40*	N. W.
For year	51.0	75.8	31.8	44.5				48.32	N. W.

^{*}Snow and rain.

Table II.—Summary of Meteorological Observations at Hope Reservoir and City Hall, for the Year 1902.

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9 65.	65. 50.5 1 66.5	65. 50.5 1 66.5 2 74.5 3	65. 50.5 66.5 74.5	65. 50.5 66.5 74.5 91.	65. 50.5 66.5 74.5 91.	65. 50.5 66.5 74.5 91. 92.5 90.5	65. 50.5 66.5 74.5 92.5 93.	65. 50.5 66.5 74.5 91. 92.5 74.	65. 50.5 66.5 74.5 93. 88.	65. 50.5 66.5 74.5 92.5 90.5 - 56.5	65. 50.5 66.5 66.5 92.5 92.5 74.5 74.5 74.5 74.5 74.5 74.5 74.5
22 28.69 1.53	30.22 28.69 1.53 30.50 29.04 1.46	22 28.69 1.53 50 29.04 1.46 27 29.19 1.08	30.22 28.69 1.53 30.50 29.04 1.46 30.27 29.19 1.08 30.46 29.46 1.00	30,22 28,69 1,53 30,50 29,29 1,46 30,27 29,49 1,00 30,46 29,46 1,00 30,49 20,49 1,30	30.22 28.69 1.53 30.50 29.04 1.46 30.27 29.19 1.08 30.46 29.46 1.00 30.49 29.10 1.30	30.22 28.69 1.53 30.20 29.04 1.46 30.27 29.19 1.08 30.46 29.46 1.00 30.49 29.19 1.30 30.29 29.6504	30.22 28.69 1.53 30.50 29.46 1.06 30.27 29.19 1.08 30.46 29.46 1.00 30.49 29.65 1.00 30.25 29.65 1.00 30.25 29.65 1.00 30.25 29.65 1.00 30.25 29.65 1.00 30.25 29.65 1.00	30.22 25.66 1.53 30.50 29.04 1.46 30.46 29.46 1.00 30.49 29.19 1.30 30.29 29.6564 30.23 29.6569 30.33 29.6277	30.22 28.69 1.53 30.22 28.69 1.46 30.27 20.19 1.00 30.46 20.46 1.00 30.49 20.19 1.30 30.25 20.56 .64 30.25 20.56 .69 30.39 20.62 .77 30.41 20.18 1.33	30.22 28.69 1.53 30.27 29.19 1.06 30.27 29.19 1.00 30.46 29.46 1.00 30.49 29.19 1.30 30.25 29.5664 30.25 29.5664 30.25 29.5769 30.39 29.6277 30.46 29.37 1.09	25.69 1.53 29.04 1.46 29.19 1.08 29.46 1.00 29.65 .64 29.65 .69 29.62 .77 29.83 1.09 29.37 1.09
				8.62 68 68 68 68 68 68 68 68 68 68 68 68 68						8 8 7 8 8 7 7 7 7 8 8	
	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1	29.04 1.46 48.3 66.5 26.5 49. 71 6 2 1 1 8 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12 29.46 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12 29.46 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11 29.19 1.30 66.8 92.5 51. 41.5 63 1 1 2 10	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12 0 29.46 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11 2 29.46 1.30 66.8 92.5 51. 41.5 65 1 1 2 10 3 29.65 .64 70.2 93. 55. 38. 73 2 5 4 0 7 2	29.04 1.46 43.3 66.5 26.5 46. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12 0 29.40 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11 2 29.65 .64 70.2 93. 55. 38. 73 2 5 4 0 7 2 29.56 .69 69.5 90.5 52. 38.5 71 6 2 0 1 8 2	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12 0 29.40 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11 2 29.40 1.30 66.8 92.5 51. 41.5 65 1 1 1 1 2 29.65 .64 70.2 93. 55. 38. 73 2 5 4 0 7 2 29.56 .69 69.5 52. 38.5 71 6 2 0 1 8 2 29.66 .77 68.8 86.5 46.5 41.5 78 8 5 2 1 9 3	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 2 12 0 29.40 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 1 2 29.19 1.30 66.8 92.5 51. 41.5 65 1 1 1 1 1 2 10 3 29.65 .64 70.2 93. 52. 38.5 71 6 2 0 1 8 2 29.62 .77 63.8 86.5 46.5 41.5 78 8 5 2 1 9 3 29.02 .77 63.8 86.5 41.5 70 9 1 8 4 9 3 29.18	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 1 8 4 29.40 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11 2 29.40 1.30 66.8 92.5 51. 41.5 65 1 1 1 1 1 2 10 3 29.65 .64 70.2 93. 55. 38.5 71 6 2 0 1 3 2 29.65 .67 50.5 38.5 71 6 2 0 1 8 2 2 29.62 .77 63.8 86.5 41.5 78 8 5 2 1 9 3 29.18 1.33	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 1 2 12 0 29.46 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 11 2 10 29.46 1.00 59.3 91. 41.5 65 1 1 1 1 1 1 1 2 10 3 29.56 .64 70.2 93. 55. 38.5 71 6 2 0 1 2 1 2 2 2 1 1 2 1 2 2 2 1 1 2 1 1 1 2 1 3 1 3 1 3 1 3 1 3 3	29.04 1.46 43.3 66.5 26.5 40. 71 6 2 1 1 8 4 29.19 1.08 49.6 74.5 34.5 40. 66 1 2 1 1 2 12 0 29.40 1.00 59.3 91. 36.5 54.5 63 6 2 0 1 1 2 10 3 29.63 1.30 66.8 92.5 51. 41.5 65 1 1 1 1 1 1 2 10 3 29.63 1.4 1.5 65 1 1 1 1 1 1 2 10 3 2 29.64 1.7 63.8 88. 46.5 41.5 78 8 5 2 1 9 3 29.13 1.38 55. 74. 33. 41. 70 9 1

Table II.—Continued.—Summary of Meteorological Observations at Hope Reservoir and City Hall.

ER. SNO	nis	
ER.	10. 1	
ER.	30 4	Mean Amoun Cloud.
E .	as	All others.
THI	nere.	To night.
WEA	nospl day:	Variable.
	Atn o. of	Fair.
	Z	Сезг.
	٠.٨	Mean Velocit;
		Variable.
		Northwest.
	tion. was	West.
IND.	Direc ys it	Southwest.
×	ling f Da	South.
	evail No. o	Southeast.
	4	East.
		Northeast.
- 1		North.
RELA	Homi IIY.	Меяп.
	vi.	Капде.
	o Sea Level Thermometers to 32°.	.muminiIV
		.mumizsK
		Mean.
		Вапде.
STER.		.muminiN
SAROME	eed to	.mumixsM
	Redu	Mean.

YEARLY SUMMARY FOR 1901.

Weans for the year.	29.93	:	-:	1.02 50.4	4.	:	43	13.4 71	-:	:		:		:		:	:	·:	-	-	:	:	5.0	:	:
Totals for the year.	:		:			:	:		+	3.4	44 34 8 10 51 27 26 90 75 51 145 13 152	9	5.	27	36	. 06		:	145	52	152	-,	:	52.03 21.25	21.2
xtremes		30.67 28.94 1.73 99. —2.5 101.5	- 16.8	63	66	ျိ	5 101	2	-	-:		:	:	- :	- :	-:	_ : :			:	:	.:		:	

YEARLY SUMMARY FOR 1900.

								_	_	_		-	-		_	_	_		_	_	_	_		_	_		_
Means for the year. 29.96	29.96	:	:	1.19	51.9	:	:	 	8	<u>·</u>		:	:	-	:	:	:	:	œ	:		:	-	-	:	:	:
Totals for the year.	:	:	:	:	:	:	- :	:			53 18	8 8	×.	33.	5 35 43 45 81 77 55 140 6 152 12	\$	<u>×</u>	11	:	55	0+1	9	25	 	:	47.78	19
Extremes	:	30.71 28.74 1.97	28.74	1.97		99.5	99.5 -1.5 101.	5 101.	:	:	-:	:	-	- :	-:					-		:	<u>:</u>	:	:		:

YEARLY SUMMARY FOR 1899.

	-		-	-	-	-		_	-	-	_	_						-	-	-	_	_	-	_	_	-	
Means for the year. 30.00	30.00	:	:	1.04	50.9	-		45.1	89	:		:	:	:	:	:	:	:	×.	:	:	-	:	4	9	:	:
Totals for the year.	:	:	:	- <u>:</u>	:	:	:	:	:	- 46	#	9	12	12 50 42 30		30	98	76		69 139 1	39 1	11 138	»	:		19.24	47.25
Extremes	:	30.83 28.83 2.00	8.83	2.00	:	94.5	94.5 —2.5 97.	97.	:	:	:	:		:	:	-	:	:		-	:	:	:	:	<u>:</u>	<u>:</u>	

YEARLY SUMMARY FOR 1898.

Means for the year, 29.99	29.99	:	:	1.11	51.8	:		46.1	7.5	:	:	:	-	:	:	:	<u>:</u>	:	:	:	:	:	:	rc.	:		:
Totals for the year.			:	:	:	:	:	:		67	31 6 17 44 41 26 76 75	9	17	7	7	. gg	9		47 136 12 164	136	=======================================	9	9	:	9	3.50	63.50 65.50
Extremes	:	30.75 28.67 2.08	28.67	2.08		101.5 0		101.5		:	:		:	:	:	:	:	:		-	:	:		• :	- :	:	

YEARLY SUMMARY FOR 1897.

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1	17		
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	27		
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-		-:-	
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:	53		
	52 23	-:-	
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8	:	-	
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6.5	:	5.5	
	_:	5.5 89.5	
-	:		
	:	95.	
x	-:	-	
8	-		
1.12 50.8	:	.86	
	:	-	
		30.84 28.98 1.86	
-	-	5	
		30.8	
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9.65			
	i.		
Means for the year. 29.99	Totals for the year.		
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lear	ota	xtr	
Me	Tol	Ex	ĺ

УЕАВЦУ ЅОММАВУ FOR 1896.

Means for the year. 29.99	29.99			-86			\$	69	-		:	-:					6			-	-		8			1 :
Totals for the year.	:		:	:	:	:	:	59 22 11 18 34 36 31 73 82	28	31	=	× ×	≅	<u></u>	FE	<i>⊗</i>	:	4	55	150 10 152		-1	:	45.91 ' 61.50	61.3	3
Extremes	:	30.85 28.87 1.98	87	98	: 86	· 6	107.			<u> </u>	:		-	<u>:</u>	:	<u>:</u>	:	:	:		:	:	:			:

YEARLY SUMMARY FOR 1895.

Means for the year, 29.98	29.98		:	1.17 51.	51.	:		45.5	92	-	-				:	:	:	- 20					1-			
Fotals for the year.	:	:	:		:	:		:		3	91	7	15	75	2	92	6	:		2 2	15.	9 9	:	50.81	64 16 7 18 51 34 40 70 62 43 143 18 155 6 50.81 30.75	
Extremes		30 75	28.61	2.14	:	98.	30 75 28.61 2.14 98, —5, 103.	03		:	:	:	:	:	:	:	:	:	:	-	- :	:				

Table II.—Continued.—Summary of Meteorological Observations at Hope Reservoir and City Hall.

AND JW.	A	onS to dageC established.
RAIN AN SNOW.	niu won	Amount of R.
	,ło	Mean Amount Cloud.
œ.	vas	All others.
WEATHER	here	to night.
WE	mosp f Day	· siriable.
	At No. o	Fair,
		Mean Velocity
		Variable.
		Northwest.
	on.	West.
WIND.	g Direction ays it was	Southwest.
W	ig Di Days	South.
	revailir No. of	Southeast.
	Pre	East.
		Northeast,
		North.
RELA- TIVE	HUMID ITY.	Mean.
	ı,	Капде.
	ieter	Minimum.
	SRMON	.mumixsM
E	=	Mean.
7	i i	Капgе.
TER,	32°.	.muminiM
BAROMETER,	and to 32°	.mumix&M
Д :	8	Mean.

YEARLY SUMMARY FOR 1894.

													1														
Means for the year. 30.01	30.01	:	:	1.06	51.4		<u>:</u>	45	73				- :	:	:	:		:	- 00		-		-	4			. :
Totals for the year.		-	:	:	- :	- :	<u>:</u>	:	51	.:	51 20 15 10 .54 45 36 61 73 46	15	10	55.	÷	36	61	53		46 134 14 153 18	34 1	15	3 18	:	45.2	42.27 77.00	2
Extremes	:	30.78	28.78 2.00 97. —4. 101.	2.00	:	97.	7	101	:	:	-:	:		:			- :	-									
									_	-	_	_	_					_		_	_	_	_				:

Yearly Summary for 1893.

_								-											i				
Means for the year. 29.98 1.13 48.6 44.8	<u>:</u> :	1.13	48.6	:	:	44.8	73	:		:	-:	:	:		:	6	-:		- :		-4- -00		8.4
Totals for the year		:	i	:	:	- :		57	15	6	13 4	- 5	33	73	83	:	53	38	5 16	ල	:	51.28	80.50
Extremes 30.81 28.84 1.97 95.5 0. 95.5	.81 28.84	1.97		95.5	0.	95.5		:	Ė		- :	- :	<u>:</u>	:	:	:	-:		<u>:</u>				
										-	-	- 3	-			-	-		-	_			
					-7	(EAF	YEARLY SUMMARY FOR 1892.	OM	MAR	Y F(OR	189.	şi.										
Means for the year, 29.98 1.06 50.4 43.3		1.06	50.4		:	43.3	11			-	-:		<u>:</u>	- :		00	-		:		4.9		-
Totals for the year.	-		_	-		_		2	000	-		-		ì	í				_	-			_

Means for the year. 29.98	29.98		:	1.06	50.4	4.	:	43.3	112		:	<u>:</u>	:	-	-:	-:		-:	:	: :	:		:	- 6:		
Totals for the year.		:		÷		:		:	50	20		19 8 10 41 38 52 75	10	7	38	52 7	73	- ::	. 47	147	6.	156	-	 	37.39	43.00
xtremes	:	30.652	66.88	1.66	:	96.	6.	94.		:	:	:	:	:		_ <u>:</u>	:	- :	:				-			

YEARLY SUMMARY FOR 1891.

	-	-	,	-	-	-	-	-		-			-	-		-	-	-	-				-			
Means for the year.	30.02	:	:	1.10 5	51.7	:	:	8.9	7.4	:	:	:	:	:	:	:	:	- 00	:	:	:	:	:	5.1		:
Totals for the year.	:		:	:	- <u>:</u>	-:	- <u>·</u> :			46	46 24 8 11 63 40 26 73	oo	Ξ	63	 우	20 2	3 74	:	. 37	37 158 7 158	~	158	٠.	:	53.19	53.19 31.26
Extremes	:	30.78 28.81	8.81	1.97	5	 86		92. 	:	:	:	:	:	:	-:-	:		:	:	:	:	:	i	:		:

YEARLY SUMMARY FOR 1890.

Means for the year. 30.	30.00		<u>:</u>	1.00	1.00 50.4	:		45.4	74	_:	•	_:	:	:			:	-:	-:-	-:	-	:	:	5.4		
Totals for the year.	:	:	:	_ :		:	<u>:</u>	:		52	:2	9	52 15 6 13 47 32 43 79 78	47	23	<u></u>	- 62	 		2	r-	37 151 7 168	ç1	:	50.00	50.60 42.00
Extremes		30.8	30.88 29.23 1.65	1.65		96.	rċ.	90.5		<u>:</u>		<u>:</u>	:	:	÷	<u>:</u>	:	-:		<u>:</u>		:	:	:		• :

YEARLY SUMMARY FOR 1889.

Means for the year, 29.99	29.99	:	:	1.15	51.4	-	:	42.3	92	_:			-:			:	=	-	-:-	-:	_ :	:		5.4	:	-
Totals for the year.	:	:	:	:	:	:		:			91	Ç.	7	19	8	37		-:	유 	7 61 39 37 71 54 40 142 9 166 8	6	166	œ	:	55.9	55.91 17.75
Extremes		30.30	90 28.93 1.97	1.97	:	92.5	92.5 0.5 92.	95.	:	:	-:-	<u>:</u>		:	:	:	<u>:</u>		<u>:</u>	- :	:	:	:	:		:

YEARLY SUMMARY FOR 1888.

Means for the year, 30.00	30.00	:	:	1.21	48.2	:	:	46.5	75	:	:	:	- <u>:</u> :		<u>:</u>		:	-6	:	:	-:		5.2	:	:	
Fotals for the year.	:	:		:	:	:	:	:	:	55	17	54 17 9 11 41 33 34 97 70 54 137 3 167 5	=		**	97	92	:	盂	137	=======================================	-52	:	63.44 31.50	31.5	0
Extremes	:	30.82	30.82 28.75 2.07	2.07	:	96.5	96.5 —5. 101.5	01.5		:	:	:	:	:	:	:	:	:	:	:	<u>:</u>	:	:	:	:	

Table II.—Concluded.—Summary of Meteorological Observations at Reservoir and City Hall.

RAIN AN	Mou	or Mened 5 in inches.
	nis	
	lo d	Mean Amoun
	Ses	All others.
THER	here. s it w	to night. Work.
WEA	nosp Day	Variable.
	Atr o. of	Fair.
	Z	Clear.
	·A	Mean Velocity
	-	Variable.
		Northwest.
	ion.	West.
VIND.	irect it w	Southwest.
ĭ.	ng D days	South.
	railin o. of	Southeast.
	Pre	East.
		Northeast.
		North.
RELA-	HUMID- ITY.	Mean.
	:ó	Range.
	ETER	.muminiM
	MOM	.mumixsM
	Риев	
		Mean.
	Level	Капке.
ETER	Sea . 52°.	.muminiM
Baron	need to	.mumixsM
,	Red	Меап.

YEARLY SUMMARY FOR 1887.

							Ì															1			1
30.01	:	<u>:</u>	1.26	49.4	<u>:</u>		47.	73			:	<u>:</u> :		<u>:</u>					<u>:</u>	<u>:</u>	:		5.2	:	:
e year.		:		:	:	i	:	63 22 7 14 45 38 26 77	63	83	r~	14	- S	- 28	=======================================	53	:	35 147 14	147	14	154 15	.: :		- S6	98 54.00
30	-:	77 28.9	2.03	:	94.	-1.5	95.5	. 30.97 28.94 2.03 941.5 95.5	-	:	:	:	-:	_ <u>:</u> _	:		:	:	÷	:	- <u>:</u>	:		:	:

Yearly Summary for 1886.

Means for the year. 30.01 Totals for the year. 30.80 28.69	30.01	30.80 28.69 2.11	28.69	1.13	48.8	8.8	48.8 46.	46.8	4.	51	51 27 12 7 56 30 39 69 74 34 143 18	37 12 7	7	26	-: 68 : -: 6	<u> </u>	39 69 74	∞ : :	34	143	18	160 10	10 :	0.0	52.02
					-	_					_		_	_	-	_	_	_		_	-	-	_	-	

54.50

YEARLY SUMMARY FOR 1885.

	-		~	-	-				i								_		-	_	_	_	_	_	-	_
Means for the year. 29.98	29.98	:	:	1.09	48.7	:	:	46.6	17	:		:	:	:	:	:	:	:	رد -		:	-	:	;		:
Totals for the year.	:	:		:	:	:	:	:		97	46 21 8 14 56 43 42 74 61 45 157 17 142	00	14	99	43	53	7.5	61	:	12	57 1	7	2	:		39.70 27.28
Extremes	:	30.82	.82 28.99 1.83	1.83		93.5	-1. 94.8	94.5		:	:	:	:	:		:		:	:	:	:	<u>:</u> :	<u>:</u>	<u>:</u>		:

YEARLY SUMMARY FOR 1884.

					l																			
Means for the year. 30.01	0.01	1.05	49.5	1.05 49.5 49.2	-	-2.6	92				-:			-	<u> </u>	6		-	-	-:	5.	80	-	
Totals for the year.		:	:	57	:	:	:		81	22 8 14 42 60 27 63 73 36 127 26 166 11	77	- 3	27	63	73	:	38	127	- 52	99		S.	48.76 44.50	8
Extremes	30.79 28.93 1.86 94. —10. 104.	1.86	:	- - -	.0	: :		:			:				:	:	:		<u>:</u>	:	:	:	:	:
						-			-	-	-	-	-	_			-	-	-	-	-	_	-	1
					\sim	EARI	YEARLY SUMMARY FOR 1883.	UMN	IAR	F. F.	۳ ا	88	~ <u>:</u>			Ne.	Mean Force.	. Ge.						
Means for the year. 30.05	:	1.08 48.2	48.2		15.5 72	5.5	22	:		-	-:	-:	-:	-	:	61				-:	5.1			1 :
Totals for the year.		:	:		:	:		£	3.	31 7 11 44 51 35 70 73 45 136 17 156 11	-	51	35	6	13	:	7	136		56 1	:	39.54	73	73.00
Extremes	30.77 28.88 1.89 93. —9.5 102.5	1.89	:	93.	-9.5.10	- C	:		:	:		:	:	-	:	-	i	- <u>:</u>	-:		-:		:	:
			-	-	-	-		_	-	_	_	_			_		_	_	_	_	_		_	

Meteorological Observations for the Whole State for 1902.

	WIND	Prevailing direction of the wind.
		Number cloudy days.
	SKY.	Number partly cloudy days.
		. Number clear days.
		Number rainy days.
	TION (s).	Total snow-fall (un- melted).
	CIPITA	Greatest in 24 hours.
	PRE(IN	Departure from the normal.
		Total.
		Greatest daily range.
		Date.
- 1	URE	Lowest.
0	TEMPERATURE (IN DEGREES FAHRENHEIT	Date.
	TEMI	Highest.
	(IN I	Departure from the normal.
		Меап.
		MONTHS.

BLOCK ISLAND.

January	29.0	c	20	27	œ	-	28	1.67	-2.58	0.55	cc	10	14	1-	10	N. W.
February	29.4	2.3	X	ถา	13	က	152	6.15	+1.71	2.06	16	10	11	6	œ	W
March	40.4	+5.8	56	30	26	19	15	6.33	+2.31	2.61	↔	13	6	10	12	N. W.
April	45.2	41.2	62	66.	33	7	18	3.29	-0.15	1.86	:	6	9	18	9	S. W
May	52.6	+0.1	99	56	37	10	28	1.04	-1.86	0.32	:	10	10	15	9	X. W
June	8.00	?! [92	7	45		19	5.35	+3.37	1.70	:	14	12	13	5	S. W
July	66.1	51 51	80	x	10	17	19	2.31	-0.77	0.41	:	13	10	14	-1	N. W.
August	- 6.99	1.3	08 8	27	54	17	19	1.42	-1.90	0.73	:	7	15	17	C1	S. W.
September	63.6	0.1	7.5	œ	8	16	18	3.96	+1.04	1.32	:	16	6	90	13	N. F.
October	55.4	+1.6	73	C)	38	30	19	4.70	+0.37	1.49	:	7	13	10	œ	ż
November	48.6	+3.7	63	10	30	53	12	1.77	-2.43	0.83	Ţ.	10	30	12	10	S. W.
December	33.3	2.9	54	55	ī	6	32	7.04	+3.97	1.44	14.5	17	œ	11	12	N.W.
		1														
Means	49.3	:	:	:	:	:	:	:	:		:	:	:	:	:	:
Totals	:	:	:	:	:	:	:	45.03	:	:	37.5	136	125	141	66	:
Extremes	:	:	80	:	7	:	32	:	:	2.61				:		S. W.

RISTOL.

January	27.9	1.0	67	53	90	4	53	1.64	1.64 - 2.75	09'0	7	=	55	CI	1-	N. W.
February	28.7	8.0	48	120	17	+5	19	5.61	+0.97	1.78	61	6	18	·	1-	N. W.
26 March	41.3	0.9+	3	81	36	19	93	5.32	+0.89	1.60	30	13	15	90	œ	S. W.
April	46.8	+1.7	67	82	33	1	5	3.82	+0.53	3.00	T.	œ	15	r.	10	S. W.
May	55.6	0.0	69	\$	38	10	20	1.14	1.14 -1.68	0.27	:	10	18	1-	,	S. W.
June	63.4	1.4	62	ক	52	7	121	3.44	3.44 +1.04	0.90	:	16	19	r.o	9	S. W.
July.	67.0	-2.8	78	+18	56	21	18	2.14	2.14 - 0.99	0.46	:	10	:	:	:	:
August	:	:	:	:	:	:	:	0.66	0.66 - 2.02	0.23	:	1~	:	:	:	
September	63.8	+0.1	76	\$	+	16	टी	2.23	2.23 - 1.32	0.70	:	14	21	6	6	सं
October	54.6	+ 2.3	<u>-1</u>	C)	33	81	23	4.06	4.06 -0.10	1.45	:	6	11	10	4	S. W.
November	46.5	+2.7	3	10	27	53	25	1.58	1.58 - 2.39	0.75	:	7	13	1-	10	N.E.
December	33.6	-3.0	52	61	15	6	34	6.39	+2.98	1.45	21.5	15	15	œ	30	N. W.
		İ														
Means	48.1	:	:	:	:	-	:	:	:	:	:	:	:	:	:	:
Totals	:	:	:	:	:	:	:	37.93	:	:	55.5	129	16	64	7.5	:
Extremes	:	:	79	:	10	:	34		:	3.00						7

KINGSTON. §

•			-	-	-	-					-	=				
January	24.8	-2.3	87		1	Ŧ	30	3.63	2.62 - 2.93	1.09	9	10	16	30	1-	W
February	26.0	-1.0			r0	r.	32	6.46	+1.42	1,58	32	1-	12	X	00	1
March	40.0	40.0 +5.7	-50	30	19	1-	28	7.39	+1.78	1.81		11		6	13	H
April	45.7	45.7 +0.9		425		7	33	4.93	4.93 +0.70	2.35	T.	6		2.0	=	J.
Mav	54.3	7.0-	11	23		10	33	1.34	33 1.34 -2.23			6	15	X.	V.	11.

Meteorological Observations for the Whole State for 1902.

(CONTINUED.)

WIND	Prevailing direction of the wind.
	Number cloudy days.
SKY.	Numper partly cloudy
	Number clear days.
	Number rainy days.
NOIS	Total snow-fall (un- melted).
IPITAT	Greatest in 24 hours.
PREC (IN	Departure from the normal.
	Total.
	Greatest daily range.
. <u>.</u>	Date.
JRE	Lowest.
ERATU ES FAHI	Date.
TEMP	Highest.
(IN	Departure from the
•	Меап.
,	
	MONTHS.

KINGSTON.—Concluded.

June	62.6	0.1-	88	~ co	40	6	30	4.15	4.15 +1.52	0.52	:	11	10	11	6	S. W.
July	67.0	-2.2	06	6	48	1-	30	3.23	3.23 - 0.53	0.69	:	11	000	00	15	W.
August	8.99	1.8	06	₹	† †	13	35		1.69 - 2.41	0.64	:	1~	16	6	9	₩.
September	61.9	-0.5	83	1	40	15	30		4.05 +0.19	1.00	:	12	10	9	14	N. E.
October	52.0	+1.2	75	C)	54	30	30		4.26 - 1.25	1.38	:	∞	14	6	œ	W.
November	44.8	+3.7	70	10	30	50	38		2.12 - 2.96	6.0	:	1~	1~	П	12	N. E.
December	27.2	-4.5	54	25	-12	0	+		8.03 +4.30	1.94	.98	10	10	11	10	Μ.
Means	47.8		:	:	:		:	:	:	· :	:	:	:	:		:
Totals	:		:	:	:	:	:	50.17	:	:	72	112	134	110	121	:
Extremes		:	06		12	:	43	:	:	2.35		•				W.

NARRAGANSEIT PIER.

February F. Samuel 27.8 -1.2 55 27 9 6 24 7.01 +2.44 1.81 24 8 13 24 March. March. 40.4 +6.0 59 30 22 7 21 6.18 +1.60 1.86 0.1 12 11 12 12 11 12 </th <th>January</th> <th>27.0</th> <th>-1.9</th> <th>20</th> <th>27</th> <th>4</th> <th>चुंग</th> <th>46</th> <th></th> <th>1.92 -3.09</th> <th>0.85</th> <th>5</th> <th>11</th> <th>17</th> <th>9</th> <th>- oo</th> <th>N. W.</th>	January	27.0	-1.9	20	27	4	चुंग	46		1.92 -3.09	0.85	5	11	17	9	- oo	N. W.
46.4 +6.0 59 30 22 7 21 6.18 +1.60 1.86 0 11 11 8 12 45.0 +0.9 70 29 29 4 28 3.37 0.12 1.80 0.22 10 14 18 18 18 18 18 18 18 18 18 19 10 <td>February</td> <td>27.8</td> <td></td> <td></td> <td>27</td> <td>6</td> <td>9</td> <td>45</td> <td></td> <td>+2.44</td> <td></td> <td></td> <td></td> <td>13</td> <td></td> <td>10</td> <td>N. E.</td>	February	27.8			27	6	9	45		+2.44				13		10	N. E.
45.6 +0.9 70 29 4 28 3.37 -0.16 1.80 1.16 1.80 1.16 1.80 1.11 1.11	March	40.4			30	66	7	21	6.18	+1.60		9	11	11	00	12	:
62.8 -1.1 71 8 34 10 26 1.01 -3.24 0.22 10 22 10 22 10 22 10 22 10 22 10 12 12 12 12 12 12 14 14 13 3.25 -0.07 1.01 14 14 14 32 1.81 -2.24 0.71 14 14 14 14 14 33 3.25 -0.07 1.01 14 14 14 14 14 33 3.25 -0.07 1.01 14 14 14 14 14 14 33 3.25 -0.07 1.01 14	*April	45.6			53	53	7	28	3.37	-0.16		:	9	14		10	si.
62.8 -1.6 83 4 43 1 27 3.60 11.5 9 11.6 11.6 11.6 11.6 11.6 11.6 11.	May	53.9			œ	34	10		1.01	-3.24		:	10	81	1	œ	S. W.
ber 66.8 -2.1 82 49 17 39 3.25 -0.07 1.01 1.01 14 14 7 10 ber 66.8 -2.1 82 44 41 14 -35 1.81 -2.24 0.71 6 21 6 4 ber 63.2 +0.5 78 43 16 30 27 4.54 0.00 1.29 8 13 3 14 ber 46.0 +2.9 70 10 22 29 34 1.59 -2.77 0.88 7 14 1 15 ber 29.4 -4.1 54 22 -5 9 34 1.59 -2.77 0.80 26.5 16 11 15 8 11 ser 48.7 <	June	8.79			7	43	-	51	3.60	+1.29			12			7	zi
66.8 -2.1 82 +4 41 14 -35 1.81 -2.24 0.71 0.95 1.3 13 13 14 41 41 41 41 43 16 30 3.77 +0.51 0.98 13 13 13 14 14 14 14 14 14 14 14 15 16 1.29 10 0.98 16 10 10 10 10 22 29 34 1.59 -2.77 0.88 7 14 1 15 11 15 11 15 11 15 11 10 10 10 22 29 34 1.59 -2.77 0.88 7 14 1 15 11 10 <td< td=""><td>July</td><td>67.4</td><td></td><td></td><td>6</td><td>49</td><td>17</td><td>39</td><td>3.25</td><td>0.07</td><td></td><td>:</td><td>14</td><td>14</td><td></td><td>10</td><td>S. W.</td></td<>	July	67.4			6	49	17	39	3.25	0.07		:	14	14		10	S. W.
63.2 +0.5 78 8 43 16 30 3.77 +0.51 0.98 13 13 13 13 13 14 16 10	August	8.99			7		14	е		-2.24		:	9	2	9	4	W.
53.7 +1.5 76 2 26 30 27 4.54 0.00 1.29 8 15 18 3 10 46.0 +2.9 70 10 22 29 34 1.59 2.77 0.88 7 14 1 15 15.0 -2.9 -4	September	63.2			00	4.3			3.77	+0.51			13	13		14	N. E.
46.0 +2.9 70 10 22 29 34 1.59 2.77 0.88 7 14 1 15 10 29.4 -4.1 54 22 -5 9 59 6.37 +2.85 0.80 26.5 16 12 8 11 11 48.7	October	53.7			C1	56		61	4.54			:	œ	18		10	S. W.
29.4 -4.1 54 22 -5 9 59 6.37 +2.85 0.80 26.5 16 12 8 11 48.7 <	November	46.0			10	81		34	1.59			:	1-	14		15	
48.7	December	29.4		54	61	-5	6	59	6.37	+2.85						11	¥.
48.7 44.42 61.5 122 188 61 116 88 5 59 1.86 61<)						Ì										
44.42 61.5 122 188 61 116 88 59 1.86 1.86 1.86	Means	48.7		:	:	:	:	:	:	:	:	:	:	:	:		*:
88 59 1.86	Totals	:	:	:	. :	• :	:	:	44.42	:	:	61.5	,			116	:
	Extremes	:	:	88	:	2	:	29	:	:		:		:	:	:	S. W.

MELVILLE.

January	8.72	:	20	27	5	4	36			0.78	T.	εı	19	÷1	10	=
February	28.5	:	**************************************	27	11	111	25	3.66		1.4	1.44 13	2	19	1	x.	N.
March	41.6	:	64	30	24	1-	177		:	1.59	89	1-	7	Ġ.		N. W.
April	48.3	:	617	28	31	77	25		:	9.0	:	1-	19		r	vi
May	55.6		74	24	34	10	30		:	0.31		7	7		9	7.

Meteorological Observations for the Whole State for 1902.

(CONCLUDED.)

WIN	Prevailing direction of the wind.	
	Number cloudy days.	
SKY.	Number partly cloudy days.	
	Number clear days.	
	Number rainy days.	
CION	Total snow-fall (un- melted).	
IPITAT) INCHES)	Greatest in 24 hours.	
PREC (IN	Departure from the normal.	
	.lstoT	
	Greatest daily range.	
Ċ	Date.	
TEMPERATURE (IN DEGREES FAHRENHEIT)	Lowest.	
TEMPERATURE	Date.	
TEMP	Highest.	
NI)	Departure from the normal.	
	Мезп.	
	MONTHS.	

				-			,			-		-	_	3	_	B
June	63.6	:	22	4	21	ລື	7	4.18	:	1.17	:	12	8	0	ţı.	
$\mathbf{July}.\dots\dots\dots\dots\dots\dots\dots$	65.1	:	88	6	45	¢15	40	2.52	:	0.41	:	12	12	10	6	S. W.
August	64.6	:	91	7	77	†21	39	1.18	:	0.40	:	2	.18	11	C1	S. W.
September	61.4	:	85	œ	37	16	43	4.14	:	08.0	:	12	12	00	10	S. W.
October	50.9	:	26	c)	27	54	38	4.66	:	1.52	:	8	14	œ	6	S. W.
November	44.2	:	70	10	25	†19	36	1.24	:	0.72	:	5	6	10	111	N. W.
December	28.9	:	. 55	22	9	49	45	6.11	:	1.55	13.5	14	12	00	11	N. W.
			İ		İ	Ì	1									
Means	48.4	:	:	:	:	:	:	:	:		:	:	:	:	:	:
Totals	:	:	:		:	:	:	39.88	:	:	29.5	96	182	06	93	:
Extremes		:	91	:	9	9—	45	:		2.00	-	:		 	:	S. W.

PROVIDENCE.\$

									0								1
January	27.8	-0.3	53	127	1-	4	82		2.06 -1.99	0.78	9	113	:	:	:	ż	14.
February	28.8	-0.3	51	27	12	9	81	86.9	+3.14	2.30	85	x	1-	1-	7	ż	<u>:</u>
March	43.8	+8.7	29	30	26	19	23	5.71	+1.60	1.30	x	13	:	:	:	:	:
April	50.0	+3.0	75	81	34	4	30	3.09	-0.55	1.62	T	1-	:	:	:	:	:
Мау	60.4	+2.5	91	23	36	10	32	1.20	-2.55	0.54	:	6	:	:	:	:	:
June	8.79	4.0	93	ಣ	51	G	30	4.17	+0.97	0.96	:	6	:	:	-	:	:
July	71.0	-1.9	93	14	55	1~	127	3.41	+0.18	1.00	:	27	21	11	17		zi.
August	70.1	1.0	91	**	53	17	36	2.39	-1.77	1.03	:	9	:	:	:	:	:
September	64.2	+0.4	æ	-	46	9	25	6.55	+3.31	2.67	:	15	:	:	:	:	:
October	54.4	+2.0	1-	61	33	+55	36	4.57	+0.83	55.55	:	1-	:	:	:	_	ż
November	46.8	+ 4.	89	15	27	65	61	1.80	-2.39	0.46	T.	1-	:	:	:	:	:
December	30.0	-3.5	57	61	9	6	33	6.40	+2.57	1.58	23.5	Z.	:	:		:	:
																	1
Means	51.3	:	:	:	:	:	:	:	:	:	:		:			:	:
Totals		:	:	:	:	:		48.33	:	:	65.5	120	6	19	~	:	:
Extremes	:	:	93	:	9	:	33	:	:	2.67	:	:	:			ż	N. W.
			•														

AVERAGES, FFC., FOR 1902.

					-	-	-	-	=	-	-	=	
Block Island	49.3	80	:	33	32 45.03	:	2.61	37.5	136	125	141	66	. 2.61 37.5 136 125 141 99 S.W.
Bristol	48.1	62		풊	34 37.93	:	2.00	2.00 55.5 129 164 64	129	164	F	75 8. W.	. W.
Kingston	47.8	90			43 50.17	:	2.35	2.35 72.0 112 134 110 121	113	134	110	121	

Meteorological Observations for the Whole State for 1902.

(CONCLUDED.)

Prevailing direction of the wind.
Number cloudy days.
Number partly cloudy
Number clear days.
. syab yairi nadmuN
Total snow-fall (un- melted).
Greatest in 24 hours.
Departure from the normal.
Total.
Greatest daily range.
Date.
Lowest.
Ъя(е.
Highest.
Departure from the normal,
Меап.
ONTHS.

AVERAGES, ETC., FOR 1902.

Narragansett Pier	48.7	:	88	-5		59	59 44.42 1.86 61.5	:	1.86	61.5	122	122	1.9	116	v.
Melville	48.4	:	91	9	9	45	45 39.88		2.00	29.5	- 5	3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	03	i v
Providence	51.3		93		9	33	33 48 33 67 66 67		67	, n	2 2		2	3 3	2
						3		:			071	'n	e r	. 51	ż

W W W

All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations as have normals.

\$Thermometers not supplied by Weather Bureau.

†On other dates also.

T indicates Trace.

BIRTHS, DEATHS, AND MARRIAGES, 1902.

The value of reliable reports in their various bearings, relating to the records of births, marriages, and deaths, and the items of fact connected therewith, showing the vital movements of the population from year to year, has been so frequently presented in the previous reports of this Board as to need no repetition at this time. It is gratifying, however, to be able to state that, with no exception, persons eminent in social and political science everywhere recognize the indispensable information such reports furnish, and that in every civilized country they occupy places of importance in the government reports scarcely second to any other department.

The forty-ninth report on the registry of vital movements in Rhode Island was completed and issued by the end of the year, and will be found appended to this report.

The work of collecting the data for the fiftieth report, the enumerating, classifying, arranging, and collecting in tables for the purpose of presenting the various facts in such detail as to facilitate examination and study, has been in progress during the time of making up this report, and affords some facts which may be presented at this time.

Below will be found some of the general results of the registry of births, marriages, and deaths during 1902.

BIRTHS.

SEX.	PARENT NATIVITY.
Males 5,776	Native* 4,525
Females 5,451	Foreign
↔ Whole number of b	irths 11,227

^{*}Including all whose fathers were born in the United States, whether the fathers were of loreign parentage or native.

MARRIAGES.

Native born Groom and Bride	
Foreign born Groom and Bride	
Native Groom and Foreign Bride	505
Foreign Groom and Native Bride	506
Whole number of marria	ges4,136
Native Grooms	Foreign Grooms
DEA	THS.
SEX.	NATIVITY.
* Males	Native 5,607
Females 3,913	Foreign 2,348
Whole number of deaths	
There was one birth to every 39.9 of the popul	dation, or25.1 births in every 1,000
One person married in every 54.1 of the popu	ulation, or 18.5 persons married in every 1,000
And one death in every 56.2 of the population	, or

The following Summary will show the rates, per 1,000 of the population, of births, marriages, and deaths for sixteen years.

The following table will present the number, parentage, and proportion to total mortality of deaths from several of the most prominent causes of death, in their order of precedence:

	Whole No. of deaths.	Percentage of deaths. from all causes.	Pare Native.	ntage. Foreign.	Excess of Foreign over Native.
Tuberculous Diseases	934	11.74	283	651	368
Pneumonia	715	8.99	279	436	157
Heart Diseases	704	8.85	323	381	58
Cholera Infantum	611	7.68	199	412	213
Kidney Diseases	535	6.73	230	305	75
Apoplexy and Paralysis	476	5.98	244	232	12
Cancer	341	4.29	179	162	17
Accidents	317	3.98	121	196	75
Brain Diseases	268	3.37	109	159	50
Old Age	261	3.28	100	161	61
Bronchitis	259	3.26	86 ,	173	87
Diphtheria	148	1.86	55	93	38
Enteritis	. 146	1.84	65	81	16
Dysentery	. 121	1.52	38	82	44
Liver Diseases	. 112	1.41	54	58	4
Typhoid Fever	. 91	1.14	29	62	33
Diabetes	. 51	. 64	29	22	7
Influenza	. 37	.47	17	20	3
All causes	7,955	100.00	3,247	4,708	1,461

LONGEVITY OF DECEDENTS.

	1902.	1901.	1900.	1899.	1898.	1897.
Average age in years of Male decedents	34.32	35.01	31.81	34.04	34.34	33.71
Female "	36.70	38.07	35.58	37.30	36.34	37.06
Total "	35.49	36.51	33.67	35.67	35.31	35.37

There has been a gradual increase during the last forty years in the average length of life of decedents, taking periods of five years each, running from twenty-nine and thirty-two one-hundredths years, at the beginning, to thirty-five and forty-nine one-hundredths years at the ending, in 1902.

RATIOS OF MORTALITY.

As compared with the year 1901, there was little change in 1902 in the proportional mortality of several of the most important diseases occurring in larger or smaller numbers every year.

APOPLEXY AND CEREBRAL HEMORRHAGE.—There were 23 less deaths from apoplexy in 1902 than in 1901, and 30 less than in 1900. The number of deaths, however, from these causes has been steadily increasing for the past thirty-five years.

Bronchitis.—The deaths from bronchitis were 27 more than in the previous year. Previous to the last five years there was a steady increase in the proportionate mortality from bronchitis during the last twenty years, which must be attributed to something more than increased skill in differential diagnoses.

Cancer.—The deaths from cancer were 341 in 1902, 306 in 1901, 292 in 1900, 292 in 1899, 279 in 1898, and 254 in 1897. Cancer has increased considerably in its proportion of mortality to whole number of causes of death, during the last twenty-five years, and is probably due to increased facilities in diagnosis.

Cholera Infantum.—There were 611 deaths from cholera infantum in 1902, as against 401 in 1901. The proportion to whole number of deaths was 7.68 per cent. For the past 35 years it has been about 6.4 per cent.

Consumption.—There were 934 deaths from tuberculous diseases in 1902. These include 791 from pulmonary tuberculosis, 36 from general tuberculosis, 56 from tuberculous meningitis, 33 from abdominal tuberculosis, 7 from tuberculous laryngitis, and 11 from other forms of tuberculosis.

A decided contrast will be seen in the proportion of the different diseases, by observation of the diagram shown on page 213. Here, considering the condition for 37 years, it will be seen that consumption has exceeded pneumonia more than sixty-two per cent. as a cause.

DIPHTHERIA.—This disease had a mortality of 148 in 1902, which was 29 less than in 1901; 121 of these were in Providence county, 69 being in Providence city. The percentage to the whole number of deaths was 1.86.

Fever, Typhoid.—There were but 91 deaths from typhoid fever in 1902, as against 103 deaths from typhoid fever in 1901, and 127 in 1900. Typhoid fever, as a disease and as a cause of death, has gradually lessened in both proportions, as compared with other important diseases, during the last 20 years.

Heart, Diseases of.—The deaths from diseases of the heart in 1902 numbered 704, against 685 in 1901. Diseases of this organ have been gradually increasing during the last thirty-seven years. See Table LXXVIII, page 227, Reg. Rep.

INFLUENZA.—The number of deaths reported as from this disease in 1902 was 39, or 109 less than in 1901. During the year 1892 there were 366 deaths from this cause.

Kidneys, Diseases of.—The number of deaths from diseases of the kidneys in 1902 was 535, the number in 1901 was 505. Diseases of these organs have been gradually assuming large importance as causes of death during the last thirty-seven years. The ratio of mortality for five years, 1896–1900, was nearly six times as large as the ratio for the years 1866–1870. See Table LXXXI, page 236, Reg. Rep.

PNEUMONIA.—The number of deaths caused by pneumonia in 1902 was 715, as against 742 in 1901. See Reg. Rep., Table LXXXVI, page 246.

Scarlet Fever.—The number of deaths in 1902 was 30, which is 9 more than in 1901. Scarlet fever has largely decreased in epidemic prevalence and proportion of mortality during the last fifteen years, as compared with previous periods of fifteen years each.

SMALLPOX.—There were no deaths from smallpox in 1902.

Diagram exhibiting the comparative mortality by absolute number of deaths from eighteen principal causes of death in Rhode Island for thirty-seven years, 1866-1902.



REPORT OF CONTAGIOUS DISEASES DURING THE YEAR 1902.

For the purpose of ascertaining the comparative prevalence of the more common communicable diseases the health officers of the several towns are requested to report monthly to the State Board of Health all cases of diphtheria, scarlet fever, typhoid fever, measles, and other communicable diseases which may have occurred during the month previous.

The health officers are supplied with return addressed postals for this purpose, and the postals are forwarded to them each month as a reminder.

Many of them report regularly. Others do not report, as they have no record of cases. The physicians in many towns, although aware of the existence of ordinances requiring the reporting of contagious and infectious diseases, do not report the cases occurring in their practice. This is because in the first place they have so few cases that they postpone the report until it is already known to the town people and to the health officer by town rumor. In some cases the physicians object to reporting to a health officer who is not a physician. In several towns the health officer is merely a nuisance inspector and may be engaged in the occupation of a grocer, plumber, or undertaker.

As no result or benefit will accrue from reporting the case under these conditions, it appears useless to the doctor to report. No inspection will be made, no placard placed, no instructions or precautions will be given by the health officer.

In fact, the physician, in the presence of an epidemic, is more apt to report to the secretary of the State Board of Health. If advised to report to the local health officer, that he may immediately compare these cases with others reported, the question is asked if there is any health officer and who he is.

Some physicians object to having a mechanic or an undertaker calling in connection with his case, as he does not believe that any additional sanitary directions can be given than those which he has already given to the family.

However, as the proportion of cases reported and those neglected are about the same each year, those reported serve as a comparison with the different years.

By observation of the following tables it will be noted that diphtheria prevailed to a less extent during the year 1896. In 1902 there were 564 eases, which was 111 less than the number reported during the previous year, which was 675. The average for the last eight years was 631. This will make the number for 1902 67 less than the average.

In 1902 there were reported 550 cases of scarlet fever, 108 less than in 1901 and 184 less than the average for the past eight years.

Typhoid fever prevailed to the number of 367 cases, which was 74 more than the number reported in the previous year and 19 more than the average for the past eight years.

The prevalence of these diseases during one year more than another does not give the significance that would appear at first sight.

It permits of comparison of the number of eases with other prevailing conditions, such as season, climatic conditions, etc. By such comparison it permits of the deduction that the spread of the disease is dependent upon local conditions or association of individuals: thus the difference in season may be varied only because individuals are more closely brought in contact with each other, as the schools are open during winter months only. In the summer months the individual is prone to travel, and through coming into contact with the dejections of many individuals at country farms and watering

places, through transmission by flies and other insects or by contaminated drinking, become infected with typhoid fever.

All the figures in this connection go to emphasize the fact that prevalence of these diseases means individual and direct contact of the person with the disease in another, sometimes a milder, form, or in the excreta or secretions from an original case.

The deductions made in the report of the superintendent of health of the city of Providence, give a precise study of the influence of these conditions.

Diphtheria for 1902.

					_		_	_		,		_	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November,	December.	For Year.
Barrington Bristol Warren	0		0	1	0	0	0			 0 0	 () ()		0 2 1
Coventry East Greenwich. West Greenwich*. Warwick	1 0 2	0 0 	0 0 	0 0 	$\begin{array}{c} 1 \\ 0 \\ \cdots \\ 0 \end{array}$	$0 \\ 0 \\ 0$	₀	₀	0 0		2 0 6	0 0 	4 1
Jamestown Little Compton Middletown Newport New Shoreham Portsmouth Tiverton.	0 0 4 3	0 0 1 	0 0 0 4 0	0 0 6	0 0 1	0 0 0 0 1 0	0 0 2 	 0 0 5 	 1 0 3 	 0 5 0 0	0 0 12 0 0 5	0 7 0 2 4	1 0 50 0 7
Burrillville Central Falls Cranston Cranston Cumberland East Providence. Foster Glocester Johnston Lincoln North Providence. North Providence. Pawtucket. Providence Scituate Smithfield Woonsocket	0 1 0 0 2 0 0 2 1 0 5 32 0	2 0 0 0 0 0 1 0 1 0 39 0 0	1 0 0 1 0 0 0 1 0 2 0 6 34 0 0	0 0 0 0 0 0 0 0 0 0 4 23 0	0 0 2 0 0 0 0 0 1 0 6 27 2 0	0 0 0 0 0 0 0 0 1 0 4 13 0	0 0 0 0 0 0 0 1 1 0 2 14 0	0 0 1 0 0 0 0 0 0 1 1 22 0	2 0 0 0 0 0 0 1 1 0 4 33 0 0	1 0 1 0 0 0 1 0 0 0 0 0 34 0 0	6 2 2 3 0 0 0 2 0 1 1 0 7 57 0 0 0	3 4 0 1 0 0 0 1 1 0 4 30 0 0	6 13 6 7 6 0 0 8 1 1 9 9 2 49 358 2 0
Charlestown Exeter* Hopkinton Narragansett North Kingstown Richmond. South Kingstown. Westerly	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 0 0 0 2	1 0 0 0 0 0 0 3	2 1 0 0 0 0 0 6
Total. Fotal, 1901 1900 1899 1898 1898 1897 1896 1895 1894	53 71 56 18 51 103 117 62 35	49 55 32 23 46 47 76 33 17	50 81 29 22 31 67 74 31	35 31 28 11 30 59 108 26 22	43 23 19 28 61 70 50 41	19 61 30 25 19 48 49 35 -32	20 19 26 16 13 38 53 58	29 23 21 14 6 59 45 52 10	23 30 23 12 77 69 100 23	50 77 53 35 34 147 121 137 33	108 121 78 41 39 117 114 227 32	66 69 100 51 31 70 126 164 58	564 674 506 298 343 893 1,021 972 341

^{*} Has no health officer.

Scarlet Fever for 1902.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For Year.
Barrington	4 0		1	3	1 5	0		<u>o</u>	3	15	···· · 7 0	12 0	50 0
Coventry East Greenwich West Greenwich* Warwick	$0 \\ 1 \\ \cdots \\ 2$	$0 \\ 0 \\ \cdots \\ 2$	0 0 i	0 0 i	$\begin{array}{c} 2 \\ 0 \\ \vdots \\ 0 \end{array}$	$\begin{array}{c} 2 \\ 0 \\ \cdots \\ 2 \end{array}$	0 0 	0 0 i	0 0 <u>2</u>	0 1 4	0 0 i	$\begin{bmatrix} 0 \\ 0 \\ \vdots \\ 1 \end{bmatrix}$	i7
Jamestown Little Compton Middletown Newport New Shoreham Portsmouth Tiverton	0 1 3 	 0 0 7 0 0	 0 9 0 0	0 0 12 1 5	0 1 26 i 5	 0 5 0 0	 0 0 1 0 0	0 0 1 	1 0 1 	1 4 0 0 0	0 0 3 0 0 0	0 5 0 0	$\begin{array}{c} 1 \\ 3 \\ 77 \\ 0 \\ 2 \\ 10 \end{array}$
Burrillville. Central Falls. Cranston Cranston Cumberland East Providence. Foster. Glocester Johnston Lincoln. North Providence. North Smithfield Pawtucket Providence Scituate. Smithfield. Woonsocket	0 0 9 1 0 0 3 2 0 8 30 0	1 1 1 1 0 0 0 0 0 0 1 1 3 3 16 0 0	1 1 3 3 3 3 0 0 0 0 0 3 3 10 28 0	3 4 1 0 0 0 0 0 1 0 3 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 20 33 0 0 0 0 2 0 3 23 0 3	0 0 0 0 0 0 0 2 0 3 15 0	 0 0 0 0 0 0 1 0 0 8 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 2 8 0 0	3 1 1 0 0 2 0 1 0 2 8 0 0 1	50 01 11 00 01 00 44 77 00	0 12 1 0 0 0 0 4 2 6 0 0	1 31 11 21 6 6 0 9 1 15 6 46 192 2 0 4
Charlestown Exeter* Hopkinton Narragansett North Kingstown Richmond South Kingstown Westerly	2 1 0 1 0 0	2 i 0 0 0 0 0	1 0 0 1 1 1 0 3	0 1 0 1 1 0 3	0 0 0 0 0 0 2	0 0 0 0 0 0	0 0 0 0 0 0 2	0 0 0 0 0 0 2	0 0 0 0 0 0 0	0 0 0 0 0 0 2	$0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2 \\$	0 0 4 0 0 3	5 2 1 6 3 0 23
Total, 1901	59 88 33 66 80 7. 168 133	42 48 55 46 57 47 97 132 95	72 59 68 48 47 47 61 118 91	59 119 20 40 51 72 123 70	79 52 54 43 58 34 48 69 71	54 53 30 48 57 30 78	29 20 25 15 41 29 56 33	47	35 22 65 26 42 33 55 58		32 76 76 91 66 53 92 87 103	50 66 58 15 45 63 87 91 122	550 657 682 607 572 629 701 1,087 939

^{*} Has no health officer.

Typhoid, Fever for 1902.

	1			-									
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For Year.
Barrington			3	i	0		 	3	3	i	4 2	· · · i	0 16 2
Coventry East Greenwich WestGreenwich* Warwick	0 0 	0 0 	 0 	 0	0 0 	0 0 ····i	0 0 3	0 0 	$0 \\ 1 \\ \cdots \\ \frac{1}{2}$	0 2 2	· 0 · · · i	 0 	$0 \\ 3 \\ \cdots \\ 9$
Jamestown Little Compton Middletown Newport New Shoreham Portsmouth Tiverton.	0 0 0 0	0 0 0 0	0 0 1 	0 0 0 0	0 0 1 	0 4 0 0 0	0 0 6		0 0 15 	0 9 0 0	0 0 9 0 1 1	0 13 0 0	$\begin{array}{c} 1 \\ 0 \\ 65 \\ 0 \\ 2 \\ 4 \end{array}$
Burrillville Central Falls Cranston Cranston Cumberland East Providence. Foster Gloeester Johnston Lincoln North Providence North Providence North Smithfield Pawtucket Providence Scituate Smithfield	0 0 1 0 1 0 2 1 0 0 5 0	0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 000 000 000 011 000 200 000		0 0 0 0 0 0 0 0 0 0 1 0 4 5 0	0 1 0 0 0 0 2 0 2 0 2 9 0	3 1 0 0 0 0 0 1 0 4 15 0	0 3 4 1 0 0 0 2 0 0 3 16 0 0	5 0 0 0 0 0 0 1 0 1 0 10 24 0	6 1 0 3 0 0 0 0 0 0 9 28 0 0	0 2 1 0 2 0 0 0 0 0 1 16 0 0	0 21 9 1 7 0 2 1 1 2 14 0 35 143 0
Charlestown. Exeter*. Hopkinton. Narragansett. North Kingstown. Richmond. South Kingstown. Westerly. Total.	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 1 0	0 0 0 0 1 0 1 0	0 0 0 1 0 1 0	0 0 0 1 0 1	0 0 0 0 0 0 2 	0 0 0 0 0 0 1	0 0 0 0 0 0 0 0	0 0 0 0 5 0 	0 0 0 1 1 6 1 74	3 0 0 0 1 1	1 3 0 3 2 14 7
Total, 1901	19 12 7 20 18 33 104 61	17 7 8 20 9 17 35 27	14 11 13 33 6 21 15 54	14 6 5 18 8 14 18 23	12 10 10 10 12 9 8 25	12 16 10 6 9 13 13 14	8 9 24 8 6 19 30 13	24 27 40 16 21 46 25 54	35 71 89 28 33 65 34 59	48 171 50 39 39 31 4t 7t	43 83 32 25 35 31 53 56	45 52 38 28 35 26 90 31	291 475 326 251 230 325 471 492

^{*} Has no health officer.

Measles for 1902.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For Year.
Barrington Bristol Warren	 0 0		· · · · · · · · · · · · · · · · · · ·		0 0	<u>.</u> 0	<u>1</u>	2	4	 0 0	 0 0	0	0 9 0
Coventry East Greenwich. West Greenwich*. Warwick.	0 0 	 0 	$\begin{matrix} 0 \\ 0 \\ \vdots \\ \dot{\theta} \end{matrix}$	 0 	 0 	0 0 	 0 		0 0 	0 0 	0 0 	$\begin{array}{c} 0 \\ 1 \\ \cdots \\ 0 \end{array}$	$ \begin{array}{c} 0\\1\\ \dots\\0\end{array} $
Jamestown. Little Compton. Middletown. Newport. New Shoreham. Portsmouth. Tiverton.	1 0 0 0	0 0 0 0	0 0 1 	 0 0 0 6 1	 0 0 0 	 0 0 0 4 0	 0 0 0 	0 0 0 0 	 0 0 0 0 1	 0 0 0 0 0 4	1 0 0 0 0 1 6	0 0 0 0 0 18	$\begin{array}{c} 2 \\ 0 \\ 1 \\ 0 \\ 15 \\ 30 \end{array}$
Burrillville Central Falls Cranston Cumberland East Providence Foster Glocester Johnston Lincoln North Providence North Providence North Smithfield. Pawtucket Providence Scituate Smithfield	0 77 0 4 0 0 0 0 0 0 9 9	51 0 0 0 0 0 0 0 4 1 1 1 6 5 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 2 6 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 2 1 3 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0	 0 2 0 1 0 0 0 0 0 1 0 0 0 0 0 0	0 2 0 0 0 0 0 0 0 0 0 1 4 0 0	0 1399 4 77 1 0 0 2 5 5 10 1 1 21 45 0 0
Charlestown Exeter* Hopkinton. Narragansett. North Kingstown. Richmond. South Kingstown. Westerly. Total.	0 0 0 0 0 0 0	$0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 72$	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 1 0 0 2 5 0 0	0 60 0 0 0 9 0 79	$ \begin{array}{c} 0 \\ 23 \\ 0 \\ 0 \\ 1 \\ 0 \\ \hline 38 \end{array} $	2 0 0 0 0 0 0 0 0	2

^{*} Has no health officer.

TUBERCULOSIS.

The examination of specimens of sputum expectorated by persons who are suspected of being afflicted with pulmonary tuberculosis has long been an established and routine method of assistance in making a diagnosis of the presence of that disease.

The Board introduced this means of assistance to physicians in their daily work in 1894.

It is understood by those who utilize the test that the finding of the organisms of tuberculosis is of positive value. Also that the absence of the tubercle bacillus in a specimen of sputum does not signify that the disease tuberculosis is absent.

It can be readily understood that the person affected may have a small lesion, that the sputum discharged may be saliva and not coughed up, that the secretions from the lungs may come from any portion of raw inflamed surface, that the organisms present may be held in a mass of swollen tissue, and do not happen to escape at the time of coughing in this particular specimen.

When a negative result is found the physician sends in a second specimen for examination if from the clinical symptoms he continues to believe that tuberculosis is present.

That the examinations have a necessary place in the work of a board of health is shown first from the fact, that the disease being a communicable one, it is the duty of boards of health to ascertain the presence of all communicable disease and to prevent those who have the disease from communicating it to others.

The average physician is not, and can not be, properly equipped with the paraphernalia to examine a case which may occur in his

practice only occasionally. He has been fully instructed as to the meaning of the presence or absence of the organism. In many of the schools he has received instruction and actual laboratory practice in examining sputum for the organism, but it is impossible for him to carry the staining solutions necessary or to take the time for the examination.

The bacteriological laboratory of the State Board of Health, fully equipped with the necessary paraphernalia and with daily experience in examinations, is in a position to give a prompt report as to the result of an examination.

The examination is usually made within twenty-four hours of receiving the specimen, and is reported to the physician having the case in charge the following day.

A card catalogue record of these results is kept for reference for the department only.

The result of an examination is never given upon the request of any person except the physician sending in the specimen or by some person by him authorized to receive the report.

It is felt that in a measure these reports are protected securely from the curious friend or neighbor.

Likewise a report to the patient himself is refused on the ground that a misinterpretation of the result may follow to the detriment of the patient and danger to the public. If he receives the report that no tubercle bacilli were found, he may assume that the disease is absent and take no further precautions. If he has the report of a positive finding, he may at once assume a line of treatment with quack remedies; he may become despondent and refuse to seek aid of any kind. If he must ascertain the result from the physician whom he has consulted, an opportunity is offered at least to give sound advice in the presence of the disease and in case of a negative result with suspicious clinical symptoms to advise and obtain a second examination of the sputum.

In addition to the card catalogue maintained to record the re-

sults of examination of sputum, a similar catalogue of all the deaths which are the result of tuberculosis is preserved for reference.

The association of T. B.+, or the finding of tubercule bacilli in a specimen of sputum from a certain person, is followed perhaps in a few months or a year by the record of his death on a blue card.

The deaths have been thus recorded since 1894, and are a source of study to those interested in the subject.

Many eases will occur in sequence in the same family, frequently at the same address. Often several cases will occur in subsequent months or years at the same residence address, but with different names and different families. This permits of study as to whether the premises may be considered as infected, or whether the unsanitary surroundings of lack of fresh air and sunlight may be the causative factor, or whether the persons who are in reduced circumstances, lacking the necessities of life, may not have acquired the disease abroad and that these certain tenements may be the only refuge they may have.

It requires much patient investigation of many years' records and personal consideration of the cases to admit of satisfactory deductions, but a record of this kind will after several years be of service as a basis for such investigations.

Examinations of Sputum for Tuberculosis from January 1, 1902, to January 1, 1903.

Clinical Diagnosis.	Total.	Tubercle Bacilli present.	Tubercle Bacilli absent.	Past cases in family.	Present cases in family.
Bronchitis	93	15	78	19	2
Bronchitis, chronic	28	6	22	22	
Tuberculosis, pulmonary	390	220	170	66	2
No diagnosis given, susp. tuberculosis.	45	10	35	2	
Tubercular laryngitis	15	6	9		
Tubercular enteritis	1		1	1	
Pleurisy, tubercular	2	2			
Pleurisy	8	3	5		
Pneumonia (after)	11	3	8	5	
Asthma	5		5		
Abscess of lung	4	2	2		
"Cough"	6	2	4		
Pharyngitis	5		5	4	
Chlorosis	1		1		
Typhoid fever	2		2		
Grippe	2		2		
"Catarrh"	1		1		
Laryngitis	1		1.		
"Exposure to naphtha gas"	1		1		
Stricture, esophagus	1		1		
"Hemorrhage"	1		1	1	
Total	623	269	354	101	4

Besides these there were two examinations of fecal matter made, result negative; one examination of pus from mastoid abscess, result positive; one examination of scraping of fistula, result negative.

During the year there were 623 specimens of sputum submitted for examination, with the supposition on the part of the attending physician that tuberculosis might be a factor in the causation of the symptoms of the patient.

Of these cases, in 390 the clinical symptoms present were sufficiently distinctive to lead the physicians to believe that tuberculosis of

the lungs was present. In 220 of these cases the examination of the specimen of sputum showed the presence, in greater or lesser quantity, of tubercle bacilli. This would make 56 per cent. of cases where the clinical diagnosis coincided with the bacterial findings, while in 170 cases, or in 44 per cent., the bacilli of this disease were not found. While this negative result is of value, yet it does not carry the weight of a distinct negative, as to the actual presence of the disease, for it is possible to obtain from the patient a specimen of sputum which is composed of only the saliva and secretions from the larynx; and containing none from the air passages in the lungs. The organisms may also be present at times, in the lung, either lying dormant or encapsulated, and will not be discharged into the air passages, and become a part of the sputum, until a degenerative process is set up which breaks down the tissues about the organisms and sets them free.

In the 15 cases of tubercular laryngitis 6 were positive. The 2 cases of tubercular pleurisy were positive. The application of this method of diagnosis is especially valuable in this form of the disease, inasmuch as the appearance of the larynx may indicate the presence of ulcerative processes, and the formation of tubercles from other causes.

It is of especial value in these cases, for the organism may not as yet have invaded the lung, but if the cases are neglected, they may readily be carried to the lung or intestine, and there propagate the disease.

It is of interest to note that, of 121 cases of chronic and acute bronchitis, in 21 cases the diagnosis was erroneous, and the presence of tuberculosis was established in the bronchi, if not, also, in the lungs. The constitution of the patient, however, being sufficiently strong, as yet, to prevent the invasion of the organisms into large areas, the symptoms present were not sufficiently distinct, or alarming, to warn the physician of the dangerous element which was present. In 43 instances, where the diagnosis of bronchitis was made, there had been other cases of the disease in the family.

RECORDS OF ALL CASES OF DEATH BY CONSUMPTION IN THE STATE.

As a part of the investigation of the subject of tuberculosis in man, a card catalogue record of all deaths from pulmonary tuberculosis has been arranged. At present this data is available from the commencement of the year 1890, and is completed to date. This division of the work affords much interesting material for study. The number of deaths for the different years was as follows:

Deaths	in	1890	911
"	"	1891	814
"	"	1892	848
"	"	1893	812
"	"	1894	825
"	"	1895	839
"	"	1896	846
"	"	1897	777
"	"	1898	886
"	"	1899	972
"	"	1900	987
"	"	1901	990
"	"	1902	934
		—	
Total			441

These 11,441 cases are recorded on cards with the following data: Name, address, age, color, married, single, or widow, name before marriage, and date of death. By collecting the names in this way

it is observed that certain names recur at varying periods of time, and by looking up the individual case further it will be found that this death has occurred in a family where previous deaths from consumption have taken place, the address in many cases being the same.

In many instances there were two cases occurring in the same family; in other instances, three and four cases.

Should the records go back for more years, a larger number would be discovered.

In addition to the card catalogue of the names of the decedents, a separate card catalogue of the *premises* where the death occurred has been kept, and thus it is possible to ascertain when any particular house may have, by chance, been infected with this disease. It is further possible to ascertain if more than one ease has occurred in any one house.

EXAMINATION OF CULTURES IN CASES OF SUSPECTED DIPHTHERIA.

The examination of cultures from material swabbed from the throats of persons suspected of having diphtheria has been continued.

This practice was inaugurated in 1894, and Rhode Island was the first State to place this facility before the profession, following by a month or two its introduction by the city of New York.

This procedure enables the physician to verify his suspicion of the presence of diphtheria in the throat of his patient by showing the positive presence of the Klebs Loëffler bacillus, or, on the other hand, by the absence of that organism confirms his diagnosis of pharyngitis or tonsilitis.

In many instances a positive finding in the presence of clinical symptoms which are negative of diphtheria has enabled the physician to foresee and forestall by treatment the actual presence of diphtheria. The clinical symptoms may not have developed sufficiently to be diagnostic, and yet the presence of the characteristic bacillus enables the physician to be on his guard against any sudden depressing symptoms of the patient. It also places him on his guard against the spread of the disease to other members of the family. These persons may be more susceptible to the toxic influences of the organism than the patient, and may have the disease in a more virulent form.

By thus being forewarned the physician is prepared to meet the serious symptoms of the disease and to neutralize the action of the organism, or rather its toxic products, by the administration of antidiphtheritic toxin or diphtheria antitoxin. This product has been supplied by the State Health Department free, to those unable to pay for it, since its introduction to the profession.

The State was early in its belief that the protection of the individual case of a communicable disease against other members of the community was justifiable. In thus utilizing the State's money it was believed that the public was protecting itself against the spread of the disease by checking it in the individual.

If the individual having the disease was unable to protect himself against others, it was proper that the State protect its taxpayers as it would in the isolation and sustenance of cases of small-pox.

As the State as a whole is protected in this way, the State assumes the expense of the protection.

While the expense of examination of the cultures from the throats examined and the expense of antitoxin is seemingly considerable, yet the protection afforded is far above the expenditure.

During the year 1902 there were 1,143 cultures examined for the presence of diphtheria. Of this number the Klebs Loëffler bacillus of diphtheria was found in 308 cases, 173 of these showing a pure, unmixed culture of Klebs Loëffler, and 135 a mixture with micrococci. The bacilli were absent in 869 cases.

The membrane in the suspected cases was located in the tonsils in 568 cases, on the pharynx in 26 cases. There were other cases already in the same family in 265 cases.

The duration of the disease before the disappearance of the bacilli from the culture is shown in the table.

In the 3 cases where it remained for one day only, it may be explained that although there may have been an error in the microscopic examination, yet it is possible that the second culture may have been from the secretions on the tongue and not from the back of the throat.

In one case a culture was taken and found to be positive on October 15th, and a negative culture was not obtained until after December 31st, a period of 78 days. The patient usually recovers his strength and the symptoms of the disease may subside in a few days, and yet the bacillus of diphtheria remain growing in the throat. The patient having had the disease has become immune against the toxin produced by the bacilli. These bacilli, although attenuated, may last for a long time in the throat. If they are transferred to the throat of another person whose system is non-resistant against the invasion or growth of this organism, as with all other pathogenic organisms, they may take on renewed strength and become of a virulent character in the second throat.

DIPHTHERIA.

					H	RESULTS	ž								LOCATION.	FION.			é		DUR	DURATION.	
CLINICAL DIAGNOSIS.	Total number primary cultures examined.	Total number K. L. present.	K. L. pure.	K. L. Mic.	Total number K. L. absent.	.vilv.	Mic. and strep.	Mie, and strep. baeilli.	Mic. bacilli.	Bacilli.	Contamination	Zo growth.	.slisnol	Разгупх.	Tonsils and pharnyx.	Other parts of threat,	None seen.	None given.	Other cases in same family.	One day.	Few days.	One weeks.	One month or
Fonsilitis	270	1	4.0	S	21	501	9	-	X	1-	:	1.0	207		25	-	33	5	95	<u>S</u>	=	9	71
Follieular tonsilitis	134	28	14	=	96	Z.	9	:	-	21	:	21	107	:	:	-	30	I.	Ξ	5	93	5	
Diphtheria	314	163	Š	7.7	151	124	91	:	X.	25	:	9	197	.e	26.	2	1.7	3.	Ę	ž	2	127	-91
Pharyngitis	35	1-	Ŧ	22	23	21	-	:	:	:	-	21	es	10	:	:	57	65	s.	7	11	-	- 1
S. D.—No diagnosis	117	1	65	12	1.	65	1	21	7	2,9		-	30	2.1	-	-	51	19	1.5	-2	90		
Croup.	12	7	rs	-	T.	9	-		:	-	:	:	:	r	:	-	-2	21	:	7	1-	-	:
Sore throat	52	1-	m	7	45	7	C)	:	-	:	:	:	X	:	:	_	9	27	2	E3	17		- !
Scarlet fever	Z	:	:	:	×	16	:	:	21	:	:	:	÷	:	21	:	T	ی		-7	7	:	
Preeautionary	235	16	10	9	219	ž	9	:	3	7		:	:	:	:	:	:	:	125	:		- :	
Total	1,177	308	173	135	869	731	17	ec.	2	61	m	9	268	र्भ	읡	65	51	19	1562	299 561		21	- 2
Secondary	2	- !			-		-		-	-						-	-						

Total, 1,433 for the year 1902.

Number of	cases	whe	re 2nd	culture	was	take	en	113
4.6		4.6	3rd	4	11	"		28
: 6		"	$4 \mathrm{th}$		٤	14		7
"			$5 \mathrm{th}$	"				7
"	65	16	$6 \mathrm{th}$	**	+4	4.4		1
44	4.6	41	$7 \mathrm{th}$		"		· · · · · · · · · · · · · · · · · · ·	1
4.4	**	4.4	$8 \mathrm{th}$	64	"	"		0
4.4			$9 \mathrm{th}$		4.6			1
44	4.	4.6	10th	4.6	44	64		1

Duration of Disease in Secondary Cultures.

One day	3 0	eases.	
Few days	31	. 6	Number of cases where secondary
One week	43	4.	cultures were taken and patient
Several weeks	62		was not ill
One month or more	6	4.4	

Out of the 308 primary cultures found to be positive, in 265 cases the presence of the bacilli had already been found in the throat of some other member of the family.

EXAMINATIONS OF THE WIDAL REACTION IN CASES OF SUSPECTED TYPHOID FEVER.

The discovery of Widal that persons who had been affected with typhoid fever for a certain period of time developed within the system a certain toxic product which had the power of checking the life of the true typhoid bacillus grown outside of the body was utilized by the Board, as was the case in other States and certain cities.

This reaction is obtained by securing from the ear or the tip of the finger of the patient a single drop of blood. The serum of this blood, when mixed in certain proportions of strength with a large quantity of the living typhoid bacilli, causes the live organisms to grow sluggish in their motile action and finally to unite with others in the same mixture, producing a massing or clumping of the organisms.

This reaction may take place in from twenty to ninety minutes, according to the toxicity or strength of the toxic or antitoxic material in the blood serum tested.

The organisms which are subjected to the test must be at least twenty-four hours old, and not older. This necessitates the planting and growing of a fresh culture every twenty-four hours. To accomplish this, nutrient media of blood serum or agar agar must be kept on hand and in stock to continue the growth of the culture for stock purposes. From this stock growth, the amount of organisms which may be gathered upon the top of a needle is introduced into a nutrient media of beef broth or bouillon and here grown for the twenty-four hours.

As these facilities and all the paraphernalia necessary to make this test are not within the available time of the average physician, it is necessary for some central laboratory to undertake this work.

As typhoid fever is a communicable disease, it is the duty of all States and municipal boards of health to aid the physician in these cases as far as possible, by establishing the knowledge of the presence of the disease as far as possible, the public as a whole receiving the benefit of an early confirmation of diagnosis and the better care of the patient and proper disposal of his excreta.

To facilitate the offer of the Board to make this test for physicians, typhoid "outfits" are placed at all the depositories where diphtheria culture tubes and sputum outfits may be obtained.

This outfit consists of a card upon which the history of the case may be entered, the name of the physician, etc. Also a small piece of thin sheet aluminum to receive the drop of blood taken from the patient, a three-cornered glover's needle for puncturing the skin, and a small wire loop for transference of the drop of blood from the skin to the aluminum plate.

A report of the result can usually be given to the physician, by telephone, on the morning following the day upon which the sample is received.

As a result of this offer of assistance, physicians availed themselves in many positive cases, and in many cases in which they were somewhat in doubt, as is shown by the following table:

Positive	 		47
Negative	 		111
Unsatisfactory	 		10
		-	
Total	 		168

SMALL POX.

During the previous year the State, as was the case in all parts of the United States, was visited with a prevalence of small-pox. While the disease did not exist to an alarming extent, nor in proportion to its occurrence in other States, yet the number of cases was sufficient to cause anxiety and activity on the part of health officers.

Most every part of the State had had experience with one or more cases, but at the close of the year the disease was more prevalent in the city of Woonsocket and vicinity than elsewhere.

Small-pox continued to appear in different places throughout the year, but by vigilant inspection, by prompt report of cases both by the physician and the laity, isolation of the affected patients at their homes or in improvised hospitals and camps, and with extended vaccination, the epidemic waned towards the last of the year.

Great credit is due to the health officers for their vigorous and prompt attention to the routine of prevention, although at times many difficulties and much opposition arose from the foreign population, which could not see the needs of our requirements for the suppression of the disease.

Cases would be imported, remaining at work during the full course of the disease, and would not be discovered until subsequent cases in the same workshop or mill called attention to the existence of a skin eruption in some one previously which was similar to the new diseavery.

Most of the cases were so mild, the type of the epidemic everywhere being of a mild character, that the patients would not realize that the fever of a few days and a slight eruption which gave little annoyance could amount to anything, so they would continue at their work and mingle with others. When the disease occurred in one member of an unvaccinated family, and there were many of this class in the foreign population, many other members of the family would have the disease. If the case was discovered in its first stages, prompt vaccination of the others showed good results and absence of the disease.

The State may feel itself fortunate that the spread of the disease was so limited, when comparison is made with its spread in States to the north and west.

CENTRAL FALLS.

The first case to appear in the city of Central Falls was on February 16th. This was followed, on March 12th, by another case in the person of a travelling salesman who probably contracted the disease while on a visit to Manville in the prosecution of his business. He had been sick for several days before his case came to the attention of the health officer who upon examination pronounced it a case of small-pox and ordered his removal to the detention hospital.

The next case to come to light was on March 23rd, this case being a mill operative, who had been sick for about a week without any attending physician. This case, together with three others discovered at the same time, was also removed to the hospital.

During the following month two more cases developed, neither of them having ever been vaccinated. These were discovered on the 16th and 20th. respectively, the latter having been sick for over a week but not calling a physician during that time, under the impression that it was nothing more than a simple case of ivy poisoning.

During the next two months no new cases developed, but during the month of July four more cases were discovered and sent to the hospital, one of these cases being of a very mild form and of unknown origin. The cost to the city for these patients at this time amounted to about \$150.00 per week.

After the discharge of the above mentioned cases, the city enjoyed an immunity from the disease until about the middle of December, when another case, in the person of a young woman who had come to this city from Hebronville, Mass., appeared. The patient was at once quarantined in her boarding-house pending the time it would take to place the detention hospital in readiness. The origin of this disease could not be traced.

CUMBERLAND AND LINCOLN.

After having been free from the disease ever since August of the previous year, the village of Manville was again visited by small pox on January 14th, this patient being a mill operative living on the Cumberland side of the river. He had come to this village from Canada about three months before, and had never been vaccinated. He had complained of feeling ill three days before, but had continued to work in the mill and had not called a physician. This was discovered by the health officer while on a tour of inspection, and he immediately ordered the patient removed to the hospital built for that purpose during the previous summer, and the house quarantined.

On January 18th, word was received from the authorities at Northbridge, Mass., that a small-pox patient confined at the hospital there had escaped from that institution and had gone presumably to Rhode Island. A sharp lookout was kept, and later the man was located in a house on the Lincoln side of the river. He was taken into custody, and the house he had taken refuge in was thoroughly fumigated. Word was sent to the authorities in Northbridge, who came and conveyed him back to that place. It was afterwards ascertained that he had ridden on the train as far as Woonsocket and had walked the rest of the distance to Manville. A systematic search for all places along the route where he was suspected to have stopped was made, and these places, when found, were thoroughly disinfected.

On February 26th, the health officer of Lincoln, while in company with the secretary of the State Board of Health on a tour of inspection, found evidences of three cases of small-pox in a family on the Lincoln side, one of them being dead upon arrival. Upon entering this place they found a two-month-old baby in a white coffin, the face of the child being covered with typical small-pox eruptions. The

lid of the coffin was immediately screwed on and the coffin carried out to an undertaker's wagon and taken away. One other of these cases, a five-year-old child, was in a state of desquamation when seen, while the eruption on the third child was not very far advanced. Further inquiry elicited the information that the father of these children was employed in Providence as a machinist, and that he had been travelling between these two places on the steam cars at least twice a day during all this time. The house was immediately placed under quarantine.

During the month of March five more cases were discovered, one on the 17th on the Lincoln side, and two on the 26th on the Cumberland side, the latter being in one family. None of these cases had ever been vaccinated. Two more cases in this latter family followed a few days later.

Two more cases developed during the following month, one, on the 3rd being in a family on the Lincoln side where there was a strong suspicion of the disease having existed and the patients having recovered before the discovery of this case. On the 4th another case in the person of a mill operative, also on the Lincoln side, was discovered.

The last case to be discovered was on the Cumberland side of the village in the person of a fifteen-month-old infant in the same family where the disease was discovered on March 26th, and which furnished two more shortly after.

EAST GREENWICH.

On May 11th this town was visited with one isolated case of the disease, this case being a prisoner in the Kent county jail, and who had been confined there since the previous October. The jail was at once quarantined and provision made for all future commitments of Kent county prisoners to the Providence county jail.

This case lasted until June 28th, when the quarantine was raised. The origin of this case remained a mystery.

EAST PROVIDENCE.

After a lapse of over a year the town of East Providence was again visited by small-pox. This case was brought to the attention of the health authorities on April 11th. The patient was one of a gang of men who had come from Boston a few days before to work on the new railroad bridge of the Consolidated Railroad. He was feeling ill upon his arrival, but continued at work, and did not call a physician until the 11th: The physician called was not long in coming to a conclusion that this was a genuine case of small-pox and at once communicated with the secretary of the State Board of Health, who upon arrival promptly corroborated the attending physician's diagnosis. house was immediately quarantined, as there was no place available to which the patient might be removed. This case was an unusually severe one, and resulted fatally on April 15th. The other sixteen inmates of the house, including two nurses, remained under quarantine until April 28th, when, as no new cases had developed, the quarantine was raised. Three days after this, however, one of the nurses · was stricken with the disease in a mild form, but made a quick recovery.

One more case made its appearance in the village of Riverside on July 10th. This case was a child who with its parents had arrived at that place from New York a short time previously. The child had been sick for about five days before a physician was called, and the disease was first thought by the physician to be chicken-pox, but upon consultation with another physician the diagnosis of small-pox was agreed upon. The health authorities were immediately notified, the house quarantined, inmates vaccinated, and no other cases resulted.

On August 16 the contract for building a hospital for all future cases of this disease in this town was awarded by a committee appointed by the town council, work on this building to be begun at once.

NEWPORT.

As during the previous year, the city of Newport was visited with

but one case of small-pox. This case was a woman who during the latter part of December had arrived in this city, having left the west a few weeks before with her husband and stopping in New York for a day or two on her way. On arriving at Newport she had gone to the house of a relative and had stayed there while looking up a tenement. She was feeling ill upon arrival, but did not call a physician until about week after. The physician called, having his suspicions, immediately summoned two members of the board of health, who, upon examination of the patient, did not hesitate to pronounce it a well-developed case of small-pox. The house was immediately quarantined and all necessary precautions taken, and no other cases developed from this one. This case resulted fatally on December 29th.

NORTH KINGSTOWN.

After an immunity of twenty-one years from this disease, the town of North Kingstown was visited with a case of small-pox on April 20th. This occurred in the town asylum at Quonset Point, in the person of one of the inmates of that institution. He was at once removed to an adjoining building and the place thoroughly fumigated.

Only one other case developed in consequence of the above. Curiously enough it was in the person of the attending physician of the same. He was vaccinated at about the time of the discovery of the first case, but it is believed that he had already contracted the disease at that time. He was quarantined at home, and soon recovered.

PAWTUCKET.

On February 14th a case of small-pox, the first since the previous October, was discovered in this city. This case was a woman of 68 years of age who was supposed at first to be suffering from chicken-pox, but which was afterwards pronounced by the health officer, upon examination, to be small-pox. The disease was in all probability contracted from a grandson who had been visiting her a short time previously and who had a suspicious eruption on his face at the time of his visit. Further inquiry elicited the information that said grandson was at

present under surveillance in Boston as a suspect. It was not deemed advisable to reopen the hospital for this one case, so she was quarantined at home, where she soon recovered.

Nine more cases followed during March, two of them being in one family, and five in another. One of these, discovered early in the month, was a peddler who about two weeks before had visited Boston, Brockton, and other places where the disease was prevalent, and may have contracted it in one of these places. At about the same time another case was discovered and sent to the hospital with this one. This latter case, a weaver, became delirious on March 15th, and escaped from the hospital. While crossing the street he was struck by an electric car and injured. He was carried back to the hospital, where he died shortly after.

On March 13th another case, a son of the above mentioned, was discovered and taken to the hospital. He had been vaccinated at the time his father was taken with the disease, but had probably contracted the disease before that time.

On March 17th one case and on March 18th four more, all five being in one family, were discovered and removed to the hospital. All of these people had been previously vaccinated, but in no case did the vaccination take.

On March 21st another case developed undoubtedly as a result of contact with one of the previously mentioned cases, since one of the above mentioned patients had called at her house a short time previously.

Three more scattered cases were reported during the year, one on April 14th, one during the latter part of July, and one on December 1st, the last mentioned having come from Boston, where her husband had died of small-pox about two weeks previously. It was found necessary to reopen the hospital, which had been closed ever since August 16th, for this patient.

PROVIDENCE.

From December 23, 1901, to September 23, 1902, forty-eight cases,

with six deaths, occurred. (See report of the Supt. of Health, page 81.)

WARREN.

On March 3rd a case of small-pox in the person of a young child of French Canadian parentage was discovered in the town of Warren. This occurred in a thickly settled section in the northern part of the town, where dwelt a large number of mill employees. This child had, with its parents, recently returned from a visit to Woonsocket, at which place it had been exposed to and contracted the disease, having never been vaccinated.

The physician called in attendance, having at once pronounced the case one of small-pox, lost no time in immediately communicating the facts to the town council, which body promptly quarantined the place, there being upward of twenty people in this tenement alone.

On March 5th another case, directly traceable to the above, developed. This was a mill employee, an uncle of the above child, and who had gone to Woonsocket with the child's mother to bring back the child. The house where he lived, and which was also in the same section of the town as the previous case, was also quarantined. This case was of about three weeks duration, and was steadily improving, when, on March 26th, he suddenly died.

On March 17th six children of the above mentioned case were stricken with the disease, on March 19th three cases, and on March 21st four more, all of these thirteen cases being in the two tenements where the above mentioned cases occurred.

On April 11th another case was discovered. This was in the person of the undertaker who had conducted the burial of the second mentioned case. It was not believed, however, that that was the cause of the disease, as but eight days had intervened since that time, but it was believed that he had contracted the disease from some other source. He had been ill about a week before a physician was called, which physician at once pronounced it a case of small-pox in a light form. He was quarantined at home, and made an uneventful recovery.

It is interesting to note that, with the exception of the last mentioned case, the disease was kept confined to one small locality owing to the prompt and aggressive action on the part of the health authorities.

WARWICK.

The town of Warwick, in common with other localities in this State, was visited with small-pox during the early part of the year; but, unlike these other localities, the presence of the disease was without fatal results, and, while of long duration, was confined to but few, and its spread prevented by prompt and vigorous action on the part of the health officials.

The disease first made its appearance on February 17th, in the village of Crompton, in the person of a man employed in the spinning room of the Crompton mill. This man had visited Central Falls some time previously, and had contracted the disease there. During the three or four weeks from the time he was taken sick to the time the nature of his disease was discovered, he had worked steadily in the mill and had communicated the disease to another member of his family. On the same day another case was discovered in the person of an operative in the same room at the mill where the first mentioned cases were employed, and to whom the origin of this latter case was traced.

On March 12th, a travelling picture dealer was taken from a hotel at Arctic Centre to the detention hospital, suffering from the disease in a confluent form. This man had been travelling about in Woonsocket, Boston, and in other infected places, and was taken ill on arriving at Arctic Centre, where the physician called immediately diagnosed the case as one of small-pox of a virulent type. This case was ill for a long period, the disease being the most stubborn of any in this town.

A day or two later three cases, and on March 16th one other, all four in one family, were discovered in the village of Crompton. These cases were all quarantined and treated at home, and made quick and uneventful recoveries.

The next place to be visited by the disease was the village of Natick, where on March 21st, a young girl whose family had been entertaining guests from Woonsocket was taken sick and removed to the hospital. Less than two weeks after the discovery of this case an infant of four months of age, whose mother worked in a mill at Centerville, and whose family had visited the family of the previously mentioned case, was stricken with the disease.

Two more cases were discovered in Natick in the persons of two sisters who were taken ill on April 22nd and May 2nd, respectively. These were also removed to the hospital.

On March 27th, at the aforementioned hospital in the village of Old Warwick, a man who had been engaged as a nurse there contracted the disease. This man had never been vaccinated, claiming that he was immune, having had the disease several years before. This statement, however, was not credited by the health officers.

After this case was discharged the town enjoyed an immunity from the disease until the latter part of the year, when, on December 3rd, it again made its appearance, this time in the village of Hillsgrove, in the person of a young woman employed in the mill there. Two weeks previously she had come from Canada, where she had probably contracted the disease, and although ill at the time of entering the mill had worked steadily there until the superintendent, having noticed a suspicious eruption, summoned the health officer of the town, who, after calling in consultation the secretary of the State Board of Health, pronounced the case to be one of small-pox.

It was ascertained by the health officer, upon inquiry, that the brother of this young woman, whom she had left in Canada, had been ill with an eruptive disease which, from the description furnished, was undoubtedly small-pox. As she was at the period of desquamation when seen by the health officer, it was a matter of serious speculation as to how many persons she had come in contact with on her trip from Canada and during her brief employment in the mill.

On December 17th two more cases, which were directly traceable to the above mentioned case were discovered. These were a brother

and sister who were cousins of the first case, and who had frequently visited her after her arrival from Canada. Neither of them had ever been vaccinated. They were both taken to the hospital, as was the first case, and the house quarantined.

Two more cases, also directly traceable to the first case, were discovered in the same village on December 20th. These were also a brother and sister who had come in contact with the first case. They had both been vaccinated upon the discovery of said case, but had in all probability contracted the disease before vaccination. They were promptly taken to the hospital, and the house was quarantined.

WOONSOCKET.

At the close of the year 1901, Woonsocket had had about 17 eases of small-pox, many of which had been treated at the convenient and commodious isolation cottages erected for this purpose.

But for the appearance of five new eases, the hospital would have been closed within a week or ten days.

On December 30th, however, a woman operative in one of the mills called at the office of the health officer, Dr. W. C. Monroe, and presented a typical eruption of small-pox which had lasted for three days. It was ascertained from her that she had been working by the side of another girl who had had a similar eruption for several weeks. This case was investigated, and the second case was found to be in the stage of desquamation. It was also ascertained that a man working in the same room with these two cases, and who had the disease developed to a desquamating stage, probably contracted the disease from the second case, which was now desquamating. This man lived in Manville and was quarantined there by the health officer, Dr. J. W. Walker.

The two young women were removed to the isolation hospital and the operatives in the room where they worked were vaccinated, but objection was made to this procedure by some of the attendants. By January 7th, 1902, the room where the girls worked had furnished seven cases of small-pox.

On January 3rd another case was discovered, in a wringer works, which case had advanced to the second week of the disease. On the following day another case, in the person of a rubber worker, was discovered in a stage of desquamation. This made the twelfth case in the recent outbreak.

On January 7th three more cases were discovered in one of the mills, all of said cases having an eruption of several days' standing.

One week after, two other cases were reported. One of these was in the person of a rubber worker who had never been vaccinated, and who presented a case commonly known among the Canadians as "black small-pox." This case proved fatal.

On January 18th two new cases were discovered. One of these had been working in Rockdale, Mass., where numerous cases were in quarantine. The other case came from the rubber mill where other cases had occurred.

On January 23rd another case was discovered in one of the public schools. This child had been sent home from school by the teacher, who had noticed a suspicious eruption. Examination by the health officer proved the case to be one of typical small-pox of a light form. The child had been vaccinated during the previous summer, but without success.

On January 25th eight more cases were discovered. One of these was an operative in one of the rubber mills. He had been previously vaccinated several years before. Four others of these cases were the wife, two children, and sister of the case reported on January 14th, referred to as "black small-pox," and which subsequently proved fatal.

Three more cases came to light on January 31st, one of these being the mother of the case above referred to, and who had nursed him through his illness. Another of these was a woodchopper who had never been vaccinated.

On February 4th another case developed. This was a young girl who with her mother had arrived in the city from Canada about a week previously. She had been vaccinated before leaving Canada but had probably contracted the disease before vaccination.

On February 6th a resolution that the delegation from Woonsocket to the State legislature be instructed to secure, if possible, legislation in favor of compulsory vaccination the in State of Rhode Island was introduced in the common council and passed by that body. It was pointed out that the hospital erected for that purpose would now accommodate 56 patients, which would relieve the city of an expense of between \$300 and \$400 per week for small-pox guards. Eleven thousand five hundred dollars had already been appropriated, and \$5,000 more was needed at once. This was appropriated at the meeting, and a like amount was promised the following month. Since the present outbreak 12 patients had been discharged and 2 had died, making a total of 72 cases in the winter's lot, or a total of 89 since last summer.

On February 8th the number of cases was augmented by four. Of these, one was a carder in one of the mills and had been sent home by the superintendent on account of a suspicious eruption. When the health officer reached the place where he boarded, after having received report of the same from the superintendent, the patient had disappeared. He was traced to a saloon and from thence to a drug store, and found in front of the same, taken into custody and sent to the hospital. He had probably contracted the disease in Rockdale, Mass.

Ten more cases followed on February 10th. Of these, two children in the same family had had the disease for five or six weeks, had been attending school regularly during this time, and were desquamating when discovered. Two others were children of the same family as the case discovered on January 23rd. Still another lived in the same block where the fatal case reported January 14th occurred.

Two cases followed on February 12th; seven, four of which were in one family, on February 13th; eleven, six of which were in one family, on February 15th; and ten, four of which were in one family and five in another, on February 17th. All of the latter five cases were desquamating when discovered, having had the disease for about four weeks,

Cases continued to crop out with great regularity during the following three months, there being three reported on March 4th, two on March 13th, five on March 14th, and five on March 17th, three of the latter being in one family, and who had all been vaccinated several times before, but without success.

One case was reported on March 18th; two cases, which had been sick for about four weeks when discovered, on March 19th; one case on March 20th, five on March 21st, three on March 25th, one on March 26th, and three on March 27th. Three deaths were reported during this month.

The record for April was as follows: April 4th, one case; April 10th, five cases; April 12th, three cases; April 23rd, three cases, all of which were in one family; and April 29th, four cases. The mortality record for this month was five.

But five cases were reported for May: two on the 2nd, two on the 3rd, and one on the 16th. One death was reported during this month, and also one in June.

At a meeting of the board of aldermen held on July 14th, the health officer reported the epidemic at an end, there being but one case (an infant) in the hospital at that time. Since the discovery of the first case on July 13th, 1901, up to the present time there had been 370 cases of this disease, 25 of which had resulted fatally, the disease having increased in malignancy as it progressed. The largest number of patients under quarantine at any one time was 120, and the largest number of houses under quarantine at any one time was 31. The health officer had made during the epidemic just 11,600 calls upon small-pox patients. Upward of 20,000 free public vaccinations had been made, the exact number not being ascertainable at that time, since not all the physicians had as yet made returns. The cost to the city had been \$44,500.00 or an average of \$120.00 per patient.

At the same meeting there was passed in concurrence a resolution appropriating \$4,500.00 for the purpose of finishing paying expenses incurred.

INSPECTION OF SANATORIA FOR TUBERCULOSIS.

That the Board might be properly informed in regard to the manner of care of the consumptive in sanatoria, and as to the character of the buildings found useful in housing them, and as the pending legislation to provide for the erection of a sanatorium for incipient cases of tuberculosis in this State made it necessary that the Board should be familiar with the requirements of such an institution, visits were made to the following institutions.

On February 13, 1902, a visit to the Free Home for Consumptives at Dorchester, on Quincy street, presented an institution maintained for the purpose of receiving and earing for eases of consumption in any or all stages. The building occupied at present is a residence, having only four or five rooms which may be used as wards. In these rooms and also in the entry, when necessary, there are accommodated thirty or more patients. The control is under a board of managers of a philanthropic society of Boston, the direct supervision being that of the Superintendent, Miss Bowers, to whose continuous and efficient efforts the success and maintenance is due. A corps of nurses and attending physicians is provided. No board is charged, the attendance as a patient being free, regardless of sex, age, color, or creed.

Near this hospital, or home, there has been erected, as the result of the work of the society and the superintendent, a large three-story building, intended as a larger home, or sanatorium, capable of accommodating 150 patients. The building is fully equipped with a steam heating plant, a complete laundry and culinary equipment, is piped for gas and wired for electricity. It is situated on quite an elevation, and a view of Boston harbor may be obtained from the upper

stories. Although not occupied at present, on account of lack of funds for furnishings and maintenance, it is anticipated that the wards may be made ready for patients by next fall. The cost of the building and its present equipment has been about \$60,000.00.

Cases of consumption in all stages of the disease were seen, most of them being hopeless cases.

Only a slight attempt could be made to provide a suitable amount of air for each patient, owing to the advanced condition of the disease and the necessity of overcrowding. While some of the cases are brought to a stand, or the disease is arrested, yet a fatal termination is to be looked for in the majority of cases. The patients, however, receive earnest, sympathetic, and careful attention, with forced nourishment, during the last days of their life, although these may be few. This is greatly appreciated by the patients, and the isolation of these cases and the care of the sputum serve to remove many centres of infection from the public.

On the following day a visit was made to the Rutland State Sanatorium, located in Massachusetts.

This institution was found to be located on a high elevation, so situated as to command an exposure to the south and east, having an extended view of the surrounding country. An inexhaustible supply of pure water is obtained from a lake near by. Considerable attention and expense was given to the disposal of the wastes by means of a sewage system advised and approved by the State Board of Health of Massachusetts.

The dormitories are all connected by corridors with a common corridor arranged in a crescentic form, with the administration building in the centre. The buildings were one story in height, but new construction of wards and administration buildings is to be two stories. The inside of the buildings are plastered, and all of the outside covered with a weather plaster held by a foundation of wire netting. Much of this plaster has a tendency to fall off, owing to decay of the netting.

The main treatment of the patients consists of continuous living in the open air, day and night. The windows of the wards are never

closed, except for a few minutes morning and night, upon arising and retiring; and during heavy storms, to protect the woodwork and floors.

The institution accommodates about one hundred and fifty patients, and an increase in the number of buildings, with an administration building, a new dining hall and recreation hall, will accompate over one hundred more.

The cost of operation is about eight dollars per patient per week, one-half of the expense being maintained or sustained by the payment of the patients of about one-half the cost, the other half being assumed by the state.

No cases are received into the institution unless there is probability of arrest or improvement in the condition of the disease. All of the inmates seen by the Board presented ruddy, healthy, bright and cheerful appearances, lounging on the piazzas, in the open, in the sun rooms, or tramping about the hundred acres of grounds belonging to the State, much of which is wooded.

VISIT TO THE FILTRATION PLANT OF THE WATER WORKS OF LAW-RENCE, MASS.

In view of the questions asked of the Board concerning the value of different methods of filtration, a visit was made to the sand filtration plant, of the city of Lawrence, Mass., on March 31, 1902.

The filter has an area of two and a half ac es, and is capable of filtering 5,000,000 gallons per day. It is constructed as a single bed, and hence is entirely out of operation when being scraped or cleaned. Owing to the high latitude of the location, much trouble is experienced from the formation of ice during the winter months. Especial apparatus and machinery has been constructed to handle the ice, cut it up, and dump it over the banks into the river. The cost of this procedure adds greatly to the expense of operation. Plans for covering the entire bed are now under consideration.

The process of scraping the beds was demonstrated, and the method of cleaning the dirty sand removed was shown.

WORK UNDER THE MEDICAL PRACTICE ACT.

During the year there were granted forty-two certificates to practice medicine under the law governing such practice. Of this number, six certificates were granted upon presentation of a diploma from a school recognized by the Board as in good standing. Thirty-five were issued upon passing a satisfactory examination, and one under the time-limit provision of having been reputably, honorably, and continuously engaged in practice prior to January 1, 1892.

One prosecution of a health specialist was made. One applicant was refused a certificate and appealed to the Supreme Court for a reversal of the action of the Board. The decision of the Board was sustained. Reports of these cases will be found in the body of this report.

Examinations under the Medical Practice Act.

An amendment to the medical practice act, Chapter 165, being made November, 1901, it became necessary that all applicants for a certificate to practice medicine in this State should pass in a satisfactory manner such examination as the Board might require.

This examination was interpreted by the Board as being sufficiently strict as to determine the practical knowledge which would be required of the average physician upon whom the public might rely in case of sickness or accident.

During the year, forty-nine applicants underwent examination. Of these thirty-five passed successfully. Of the unsuccessful applicants, two were midwives. These persons had been in the practice of midwifery for many years, with more or less success. Numerous deaths of children and an occasional death of the mother resulted. This information was derived from regular physicians who were called in by the midwives when they found that the labor was not progressing satisfactorily, or when the child or mother was about to die. In these instances the physicians have stated that if the mother or the child had received proper attention from the beginning of the case, death would not have resulted.

One midwife, an Italian, stated that she could neither read nor write in English or in her native language, but that she had been in the practice of midwifery in this State for many years, and that she was fully competent to practice midwifery inasmuch as she "came to it by natural."

This person applied for permission to take the examination to obtain a certificate to practice medicine. She was not only unable to answer the simplest questions of the examination, without which no one should attempt to practice midwifery, but she also showed a total ignorance of the first principles of midwifery, or obstetrical practice.

REFUSAL OF CERTIFICATE IN THE CASE OF DR. HENRY ROBERT SURLES.

On November 26, 1901, application for a certificate to practice medicine in this State was made by Dr. Henry Robert Surles. The applicant desired to be granted a certificate on the presentation of a diploma from the Hahnemann Medical College of Chicago, Illinois.

This college was rated as in good standing by the Board, and the certificate was ordered issued to the applicant.

The certificate had been made out, but before it could be delivered information was received by the Board that Dr. Surles had issued, or caused to be issued, certain circulars advertising a particular form of vaginal syringe. Dr. Surles claimed to be the patentee of this device. Certain statements occurred in the circular which, in the opinion of the Board, might lead to a misrepresentation. Upon some of these circulars appeared the statement that Dr. Surles was a graduate of the College of Physicians and Surgeons of England. No

statement or declaration of the possession of a diploma from this last named school was filed in the application made to the Board, and no statement to that effect was presented at any time.

The Board, therefore, issued a notice to Dr. Surles to appear before the Board and show cause why a certificate should not be issued to him.

Dr. Surles appeared at a hearing held April 17, 1902, accompanied by legal counsel. In the evidence presented by him it was shown that the applicant had been convicted of criminal abortion in the State of Massachusetts, and had served a six or seven years' sentence; that he had come here to Rhode Island and had immediately issued the circulars which contained material common to this form of advertisement. He claimed that many of the circulars had been sent out with his name stamped upon them by a man with whom he had entered into business relations for the purpose of exploiting this syringe. He was aware of the fact that they had been circulated. He stated that he had objected to this to his partner, but had made no further effort in that direction.

In explanation of the statement which appeared on the circular, to the effect that he was a graduate of the College of Physicians and Surgeons of England, he stated that he had been possessed of certificates and diplomas showing his successful acquisition of that title, but the papers so received by him, he stated, had been destroyed by fire, or lost or taken by some one who had enmity against him.

Being assured by his counsel that much evidence could be presented to show the good standing and high moral character of the applicant, if time was allowed, the Board adjourned a continuation of the hearing until April 23, 1902.

Witnesses who attested to the good standing of Dr. Surles in the city of Worcester as a citizen up to the time he "got into trouble" in the matter referred to, and also to his good standing in a fraternal order of which he was a member and medical examiner, were presented. Dr. Surles presented a certificate permitting him to practice

in Illinois, issued upon the diploma given him by the medical college in Illinois.

As a result of this hearing, the following decision was issued to Dr. Surles:

STATE OF RHODE ISLAND, &C.,

PROVIDENCE, Sc.

BEFORE THE STATE BOARD OF HEALTH,

In re. Certificate of Henry Robert Surles.

This matter came on to be heard at room 314, in the State House, Providence, R. I., April 17th, 1902, after due notice to Henry R. Surles to be present, and, it appearing from the evidence submitted that said Surles was convicted before the Superior Court of Worcester County of performing an abortion upon the body of one Murphy and sentenced to eight years imprisonment in the state's prison of Charlestown, this Board finds said Surles to be a person not of good moral character who has been guilty of gross, unprofessional conduct, and that said conviction of said crime has, in the opinion of said Board, rendered said Surles an unfit person to practice medicine in this State. Therefore, it is now ordered that the certificate to practice medicine, ordered to be issued to said Surles on the ninth day of January, but not delivered to him, be and the same hereby is revoked.

Attest:

GARDNER T. SWARTS, M. D., See'y. Albert G. Sprague, M. D., Pres.

Thereupon Dr. Surles entered an appeal, before the Appelate Division of the Supreme Court, from the decision of the Board in refusing to issue to him a license.

The appellant attempted to show that his character was correct, and that he had done nothing in this State which should prevent a certificate being properly issued to him. The representation of the Board evoked evidence from the appellant as a witness the statement that he was aware that certain circulars bearing his name and office address had been freely spread about the city and that they represented in the statements contained within the circular that a certain kind of syringe manufactured under his patents would produce certain beneficial effects; aso that the printed statement or advertisement contained in one of the circulars to the effect that he was a

graduate of the "College of Physicians & Surgeons of England" was correct, and that he had at one time diplomas from that institution, but that these documents had been lost or destroyed. He also made statements as to his trial, conviction, sentence, and commitment to jail in Massachusetts for criminal abortion.

The secretary as a witness declared to the court that he knew of no such college in England as named by the appellant. That there existed a college of Physicians and a College of Surgeons, two distinct institutions, issuing distinct degrees; also that written statements of the recorders of these institutions were to the effect that the name of Henry R. Surles was not to be found on their records. The attorney for the appellant, Mr. Robinson stated to the Court that he was about to visit England, and assured the court that if given a sufficient time he would be enabled to produce evidence from the records in England which would prove the claim of his client.

The court granted him this time, setting a date reasonably distant for the purpose.

The date for the presentation of this new evidence arrived, but the attorney for the appellant not appearing, the court handed down a decision sustaining the action of the Board.

Case of the State Board of Health vs. Severe Paquin.

Information was received by the secretary of the Board that a person by the name of Severe Paquin, located in the town of Warren, had been engaged in the practice of medicine in so far as he had been employed to attend a woman in confinement, acting as a midwife, accoucher, or obstertic physician.

The child, resulting from this labor, was born dead. The medical examiner of the district who had been called in to sign the death certificate, upon inquiry and investigation found that the conditions of the confinement were such that, had a regular and intelligent physician been present, the life of the child might have been saved.

The Board had for some time received rumors that this man had been receiving eases in his office, and other cases; but until there was a death which might have been avoided, and which led to indignation and reprisal on the part of the patients affected, no evidence which could be satisfactorily presented to the court was obtainable.

This man was well known to his fellow countrymen as one who in a small shop conducted the business of selling clocks and small wares, of repairing shoes as his principal occupation, and that in a rear shop he was prepared to receive, and did receive, patients whom he advised as to their ailments, and prescribed certain pills and potions which he kept in stock for the purpose of the cure of these ills.

Yet while many reports of this kind were received by the Board, no one could be found who was willing to testify as to the conditions existing. As usual, it required the death of some one whose loss was appreciated by the relatives, to cause them to serve voluntarily as witnesses.

This person, being arrested, was heard before the fifth district court in Warren, was found probably guilty, and remanded to the grand jury.

The evidence presented showed that the defendant was solicited to attend the mother of the child when her labor should occur. The price for such attendance was agreed upon and paid to the defendant at the time of labor.

The regular physician having testified that, having been called to see this case, from the statements of the parents and the attendant relatives, from the conditions found in the child, which was found dead by them, and from the statement of one of them, who was a medical examiner called to view a case of a person found dead without medical attendance and under suspicion of violence or neglect, it was shown that the child might have been alive had proper medical attention been given instead of the use of a charlatan assuming the responsibility of sickness, life and death, without proper knowledge.

The defendant pleaded nolo, paid his fine of fifty dollars, and, as subsequent evidence showed, again resorted to practicing medicine upon his willing countrymen, who were attracted by his earnest declarations and promises of success, and by his small fees.

It was evident that he would be enabled in a very short time to pay the amount of his fine, costs, and lawyers' fees.

This person, the defendent, was already upon the records of the Board, having been refused a certificate to practice medicine, on the ground that he had not a proper knowledge of medicine, as shown in the report for the year 1896.

Upon refusal of the Board to grant a certificate this person had appealed to the Supreme Court for reversal of the decision of the Board.

At the hearing before the Supreme Court it was shown that the applicant had no knowledge of medicine; that his occupation was that of a cobbler. By his own assertions his knowledge was limited to the perusal of a large and thick volume dedicated to the practice of medicine. A certain elergyman testified in his belief in the applicant's knowledge, citing his close application and study to this book.

On the part of the Board it was possible to show that the applicant had, through his assumption to treat disease and through his ignorance, been the cause of much suffering and mutilation of certain important parts of a person who had been foolhardy enough to submit to his treatment. The results of strong acids applied had resulted in the destruction of important tissues and organs, the condition produced by the maltreatment being shown by the presentation of a photograph presented to the court in evidence.

The Supreme Court decided that the appellant had not established a reputation as a safe person to practice medicine upon the public; and the decision of the Board, not to grant him a certificate, was confirmed.

Investigation of the Condition of the Water Supply of Bristol and Warren.

Complaint having been made to the Board that the condition of the public water supply of Bristol and Warren might be prejudicial to the health of the consumers, the attention of the Board was called to the matter at a special meeting held September 18, 1902.

Present, Dr. Sprague presided in the chair; Mr. Locke, Drs. Darrah, Briggs, and Swarts.

The purpose of the meeting was for the consideration of the condition of the water supply of the towns of Bristol and Warren

The Secretary explained that with Mr. Gray, a member of the Board, he had on the previous Saturday inspected the water-shed of this supply, and had found many indications of neglect of the supply, and several places where contamination of the supply might occur as the result of the presence of cows and hogs on the banks of the stream or Kickemuit river.

Some photographs, contributed by Mr. Gray, were shown.

It was the opinion of the President that the Board should visit and inspect the water-shed in a body, and a meeting was called for September twenty-sixth for that purpose.

September 26, 1902-

The members of the Board met this day, Drs. Sprague, Briggs, and Swarts at the Bristol and Fall River station in Providence, and later met Dr. Darrah and Mr. Locke at Warren, and took carriages on a tour of inspection of the water-shed of the water supply of Bristol and Warren, taken from the Kickemuit river.

The following points were visited, and the following conditions found to be present:

1. At the dam near the pumping-station, the tide of salt water was higher on the outside of the dam than the fresh water impounded in the reservoir. It appeared possible, at extreme high tides, that the water might dash through the dashboards placed at the spillway,

or overflow. According to the statement of the engineer at the pumping-station, this had occurred.

- 2. The filtering crib of small stones which covers the pump-well or intake of the pumping-station pipe was uncovered from water and was overgrown with a profuse growth of weeds.
- 3. The warm water delivered from a large pipe, and coming from the condenser of the pumps and exhausts, flowed against the intake filtering crib. A certain amount of oil, coming with this water, was observed floating on the surface of the water.
- 4. Between the lowest dam and the next dam, or roadway, above, much of the bottom of the reservoir was uncovered, on account of the low state of the water. The uncovered portions were covered with a dense moss-like growth of vegetation.
- 5. A graveyard was found on the side of the reservoir, in which burial had been made within five years.
- 6. At the roadway which separates the lower reservoir from the one above, several tin cans had been thrown into the reservoir, and the water had a turbid appearance. A deposit of human excrement was found upon the walls of the roadway within a few inches of the edge.
- 7. At a point further up the river, as the road crosses the brook supplying the reservoir, a driveway diverges through the brook for the accommodation of horses and cattle. A herd of about twelve cows was being driven from this point at the time of the visit. The cows had passed through the brook, and deposits of cow excrement had been left on the edge of the stream.
- 8. Further up the stream, on a branch supplying the main stream, at a point where it crosses a roadway, was found a dead pigeon. Two pigs only were in sight, but they had established a wallow-hole on the side of and in the stream.
- 9. A view from the enbankment, or dam, of the upper, or main, reservoir disclosed large areas of uncovered land, or bottom of the reservoir, but which had innumerable stumps or roots scattered over the surface.

- 10. At the head of the supply, and upper end of this upper reservoir, was a piggery accommodating, at the time of the visit, fifty pigs, large and small. The surface flowage from this land could, in times of heavy rains, and with frozen ground, find its way, by means of a ditch, to the reservoir.
- 11. A view from the banks of the reservoir at this point showed large areas of dead stumps, roots, and decaying vegetable growths and deep oozy mud, and the remains of decayed plants and water growths.

Returning to the city by train, the meeting was adjourned.

October 3, 1902-

A meeting of the Board was held this day at the State House. Present, Dr. Sprague, President; also Drs. Briggs, Budlong, Darrah, Swarts, and Mr. Locke.

The results of the examination of the water-shed of the Kickemuit river were taken up for consideration, and the Secretary was directed to transmit a copy of the following conclusions and directions to the towns of Bristol and Warren and to the Bristol Water Works Company:

OCTOBER 3, 1902.

To the Town Council of Bristol,

Bristol, R. I.

Gentlemen:—At a meeting of this Board held to-day I was directed to call your attention to the condition of the water supply now being delivered to your townspeople and to the conditions of pollution existing upon the watershed of the Kickemuit river from which your water supply is taken.

Recent inspections, by the members of the Board, of the reservoirs on this river, of the river itself, and its tributaries, show that the sides of the same are frequented by cattle and pigs and made use of by them, the upper reservoir is allowed to be the resort of fishing parties making unwholesome use of the same, that large areas of decaying stumps, weeds, grasses, and organic matter are left uncovered in low states of the water, besides quantities of refuse in various forms appear upon the banks of the reservor, river, and tributaries.

The water of condensation from the pumping station is discharged into the lower reservoir very near the intake pipe, from which water is drawn from the reservoir and pumped into the distribution.

The water of condensation heats the water near the intake very perceptibly and is therefore objectionable, as it hastens and favors decomposition of large quantities of organic matter which is to be found in this supply, particularly at this location.

The results of analyses of the supply made by this Board for three years show that the salt water of the bay finds its way into the lower reservoir, contaminating it to a high degreee, and that the amount of organic matter present is in large quantities, as shown by the large quantities of ammonia reported present in the analyses.

It is the opinion of this Board that some immediate action should be taken to rectify the conditions existing, since the presence of animal fœcal matter is a source of danger to the health of the consumers, and the presence of decaying vegetable matter and the introduction of salt water materially reduces its value as a potable or drinking water.

As a matter of precaution and safety, you are recommended to boil all water used for culinary purposes taken from the Kickemuit supply.

Yours truly,

(Signed)

GARDNER T. SWARTS,

Secretary.

Upon receipt of the notification of the Board to the Bristol and Warren Water Works Company, the company instituted an examination of the water-shed and of the supply, through Dr. John L. Leal, of Paterson, N. J.

A thorough consideration of the conditions existing was given, and a comprehensive report submitted to the company, and copy of this report was forwarded to the Board, accompanied by the following letter:

BRISTOL & WARREN WATER WORKS,

December, 1st, 1902.

Rhode Island State Board of Health, Gardner T. Swarts, Secretary.

GENTLEMEN:—We hand you herewith a report upon the sanitary condition of the water supply of this company, of which we wrote you in our letter of October 10th.

This report was prepared by Dr. John L. Leal, and embodies the findings and

conclusions of Prof. J. H. Appleton, Prof. F. P. Gorham, and Dr. F. T. Fulton, who, as well as Dr. Leal, made a thorough examination of the water in question and its sources.

John L. Leal, M. D., of Paterson, N. J., A. B., A. M., Princeton; ex-health officer of Paterson, N. J. (for thirteen years); Sanitary Adviser of the East Jersey Water Company (the largest water company in America) and of the Montelair and of the New York & New Jersey Water Companies; President, New Jersey State Sanitary Association, etc., etc., is, we feel, an expert who, you will agree with us, is entirely competent to pass upon the subject in hand. Of the fitness of Professors John Howard Appleton and F. P. Gorham of Brown University, and of Dr. F. T. Fulton of the Rhode Island Hospital, all of whom must be professionally known to your board, there can likewise be no question.

Their findings conclusively establish, as Dr. Leal states in closing his report, that the conditions of the water and the water sheds "do not in any way justify the action of the State Board of Health."

We therefore request that your Board shall, in justice to ourselves and in the interest of those who take our water, withdraw as promptly as may be its recent recommendation to the town of Bristol, and take such other steps as will, so far as possible, undo the effect caused by the unwarranted attack made by your Board in its action of October 3rd, upon the sanitary quality of the water and the water sheds of this company.

Respectfully,

GEORGE H. NORMAN,

President.

No meeting of the Board was held during 1902. Consideration of the condition of the Bristol water supply was taken up at the first meeting in the following year, 1903.

A Case of Leprosy in the State.

October 3, 1902.

At the meeting of the Board held October 3, 1902, the Secretary reported that a case of leprosy of the anæsthetic type had been discovered at the R. I. Hospital. The man was a resident of Providence, and had been for several years. Had resided for many years in Brazil, and had come to this country again five years ago. Some of

the symptoms date back three or more years, but the disease had not been diagnosed as leprosy until the present time. He was admitted to the hospital on account of the presence of two ulcers, located at the base and plantar surface of each great toe. The legs had been cedematous, but the swelling had subsided upon retaining the recumbent position for several days, and the ulcers showed a tendency to heal kindly.

The face had the deep tan peculiar to residents of a tropical climate, but the lips and skin of the face had a thickened appearance; and the speech was clumsy, as if the tongue was thickened. The patient stated that the thickening of the skin had been gradual for a number of years, but the speech was the same as he had always had.

The chest and abdomen presented a spotted bronzed appearance with white areas, similar to a vitiligo. There was loss of sensation to pain, though not to touch, involving the forearms and hands and the feet and lower legs as far as the middle third. The patient appeared normal in every other way, the functions not being disturbed. The mind had been sluggish in action a few years ago, but had improved lately. This was attributed to the heat of the southern climate, and to the habits of the patient. Examination of the secretions from the nose, made by the hospital interne who had diagnosed the case, revealed the presence of typical bacilli of leprosy in large numbers. A section of the skin taken from the anæsthetic portion of the leg by the pathologist also showed numerous bacilli isolated and in clumps. The patient had asked for discharge from the hospital, and had departed without address, but had probably gone to New York; hence no consideration of the application of isolation or quarantine became necessary.*

^{*}Note.—From anonymous communications received later, it was surmised that the patient had located somewhere in the northeastern part of Pennsylvania, but the exact location could not be ascertained.

ACTION TAKEN IN REFERENCE TO THE PRESENCE OF BUBONIC PLAGUE IN SAN FRANCISCO, CA.

November 21, 1902.

A meeting of the Board was held this day, Dr. Sprague, President, in the chair. Present also Drs. Darrah, Briggs, and Mr. Locke, and Dr. Swarts.

A resolution of the Conference of State and Provincial Boards of Health of North America, passed at the meeting held in New Haven, Conn., on October 28 and 29, was taken up for consideration, and the following action was taken.

"Whereas, Information having been received through the action of the Conference of State and Provincial Boards of Health of North America, at its meeting in New Haven, October 28–29, 1902, that plague had existed in California since March, 1900, to October, 1902, and has continued to exist up to the present time, and from evidence submitted it appears that an effort is being made to suppress knowledge of its existence and efforts to restrict the disease have been held in abeyance by the health and State authorities of California, and

"Whereas, Information that this disease has been discovered outside the centre of infection, known as "Chinatown" in San Francisco, and

"Whereas, There is danger at any moment that this disease may be transported into other States, thereby placing those States in danger; therefore

"Be it Resolved, That this Board expresses its lack of confidence in the methods of control of the disease known as "plague," which may be present in San Francisco, and deplores the unusual and unsanitary method of suppressing knowledge of the presence of communicable disease, and that the safety of other States requires some immediate action for the control and suppression of the disease; and be it further

"Resolved, That the State Board of Health of Rhode Island hereby makes request of the Surgeon General, U. S. P. H. & M. H. S., to take such immediate action as may be possible for the prevention of dissemination of this disease, and in accordance with the resolution of

the Conference of State and Provincial Boards of Health of North America, to arrange at the earliest possible date a joint conference for the purpose of eradicating plague from the United States; and be it further

"Resolved, That the Secretary be directed to forward a copy of these resolutions to the Surgeon General, U. S. P. H. & M. H. S., and to the several boards of health of the United States."

The Secretary was appointed delegate to attend any meeting or meetings which might be called in connection with this matter.

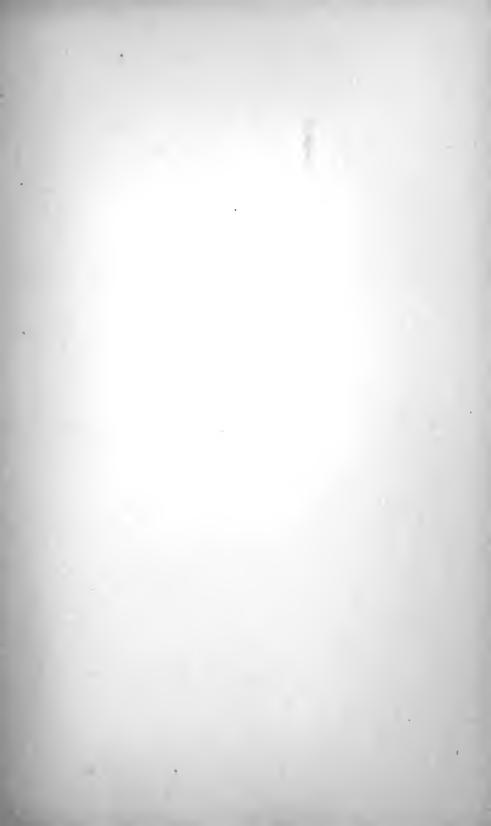
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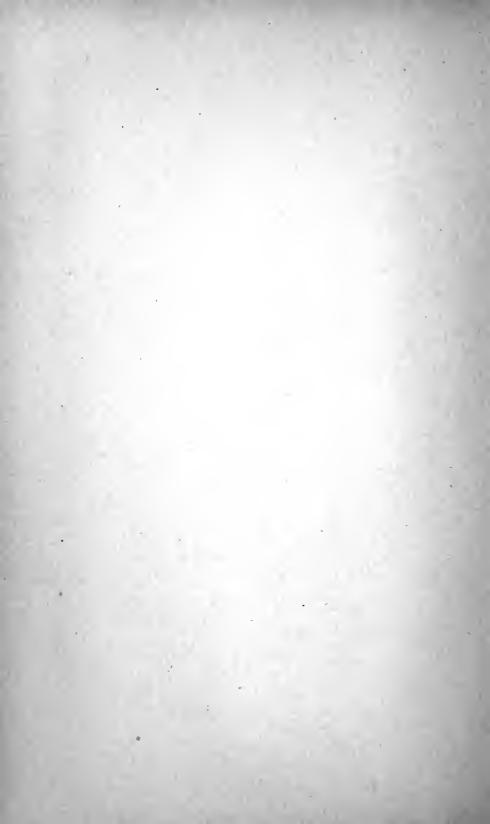
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^{*} See Index to Forty-Eighth Registration Report.





FORTY-NINTH REPORT

RELATING TO THE

REGISTRY AND RETURN

OF

Births, Marriages, and Deaths,

AND OF DIVORCE,

IN THE

STATE OF RHODE ISLAND,

FOR THE

YEAR ENDING DECEMBER 31, 1901.

PREPARED BY

GARDNER T. SWARTS, M. D.,

STATE REGISTRAR OF VITAL STATISTICS; SECRETARY OF THE STATE BOARD OF HEALTH; COMMISSIONER OF PUBLIC HEALTH.

PROVIDENCE .

E. L. FREEMAN & SONS, STATE PRINTERS.

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OF THE

RHODE ISLAND STATE BOARD OF HEALTH.

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REV. GEORGE L. LOCKE	Bristol Bristol County.
ALEXANDER B. BRIGGS, M. D	ASHAWAY WASHINGTON COUNTY.
RUFUS E. DARRAH, M.D	NEWPORT NEWPORT COUNTY.
GARDNER T. SWARTS, M.D	PROVIDENCE PROVIDENCE COUNTY.

GARDNER T. SWARTS, Secretary.

State of Rhode Island and Providence Plantations.

PROVIDENCE, R. I., February 1, 1903.

To the Honorable the General Assembly:

The forty-ninth Annual Report upon the Registration of Births, Marriages, and Deaths in Rhode Island, and including judicial procedure in relation to divorce, during the year 1901, with compendiary tables of the results of registration in the previous years, is herewith respectfully submitted.

The plan of the preceding years, in regard to the general arrangement of the tables, summaries, and comments, has been followed in this report, except that Table IX of the yearly report of causes of deaths has been re-adjusted to conform to the nomenclature of the so-called Bertillon system.

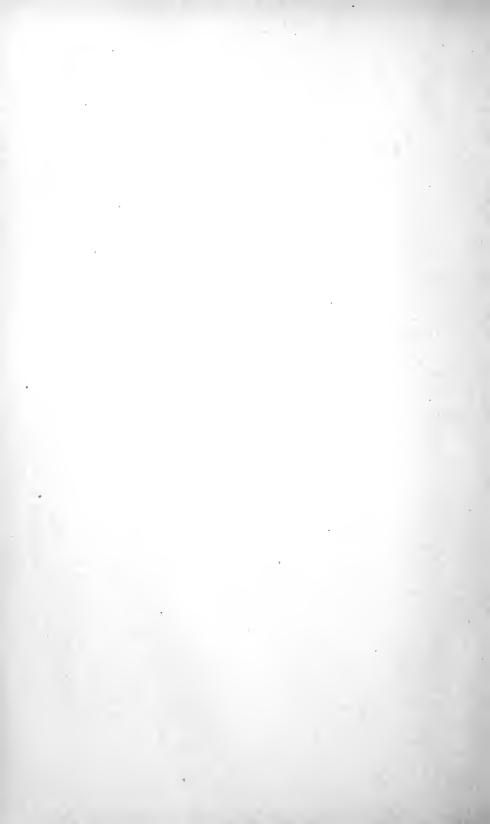
In the special tables the object has been to present the important facts of many years of registration, as well as of single years, in such manner as to make them readily apparent and relieve the reader of the statistics of much of the labor of personal examination of each of the general tables of the preceding reports for the purpose of ascertaining the relation the various facts bear to each other.

While this classification does not reach a perfection which may be desired by all registrars, it has been adopted in order that it may be in conformity with the registration reports of all other principal cities and States having a system of registration. It also places the report in conformation with the registration reports of Canada and other foreign countries, which have agreed to adopt this system at this time.

Respectfully,

GARDNER T. SWARTS,

State Registrar.



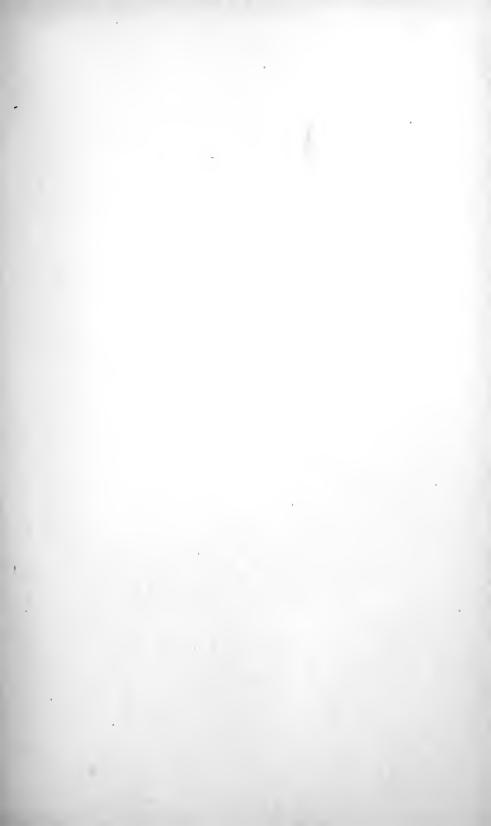
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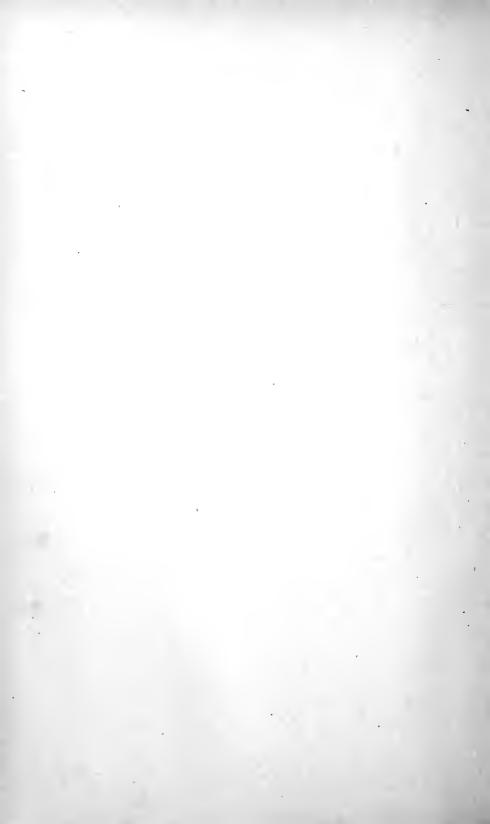
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REPORT UPON THE REGISTRATION

OF

BIRTHS, MARRIAGES, AND DEATHS

18

RHODE ISLAND,

FOR

THE YEAR ENDING DECEMBER 31, 1901,

AND

FOR VARIOUS YEARS FROM 1853 TO 1901,

INCLUSIVE.

General Summary of Births and Marriages in the State of Rhode Island during the year 1901.

TABLE I.

			В	IRTHS	3.				MAR	RIAG	ES.	
TOWNS		SI	ex.		PAREN	TAGE.				NATIV	TTY.	
AND DIVISIONS OF THE STATE.	Whole Number.	Males.	Females.	Native.	Foreign.	Native Father. Foreign Mother.	Foreign Father, Native Mother.	Whole Number.	Native,	Foreign.	Native Groom. Foreign Bride.	Foreign Groom. Native Bride.
Barrington Bristol Warren	41 . 142 147	27 70 91	14 72 56	9 41 29	26 66 88	5 17 16	1 18 14	9 31 53	3 16 11	3 4 26	1 4 4	2 7 12
Bristol County	330	188	142	79	180	38	33	93	30	33	9	21
Coventry East Greenwich West Greenwich Warwick	160 44 9 758 	82 24 3 414 523	78 20 6 344 448	78 18 9 153	59 17 425 501	9 2 69 	14 7 111 132	25 25 1 206 257	24 21 1 67	89	$\frac{1}{28}$	22-29
Jamestown. Little Compton. Middletown Newport City New Shoreham. Portsmouth Tiverton.	20 25 34 576 13 54 60	10 14 16 307 8 32 36 423	10 11 18 269 5 22 24 359	14 13 7 230 10 24 21	4 10 25 242 28 25 334	1 2 53 2 	51 1 2 6 -63	6 5 3 165 13 6 14 212	3 4 2 72 12 5 2 100	1 47 1 5 54	29 1 -7 -39	17
Burrillville CENTRAL FALLS CTANSTON* CUMBERIAND East Providence Foster Glocester Johnston Lincoln. North Providence North Smithfield PAWYUCKET PROVIDENCE CITY Scituate Smithfield WOONSOCKET	130 516 286 238 276 21 23 117 265 43 50 1,019 4,696 53 39 988	71 293 148 124 126 8 10 555 135 139 30 509 2,483 22 21 536	59 223 138 114 150 13 62 130 24 20 510 2,213 38 11 18	32 91 121 66 127 21 19 30 23 9 9 19 315 1,369 42 18	61 303 118 102 97 1 76 167 27 22 438 2,482 17 604	14 48 19 37 24 1 3 32 2 5 141 420 2 92	23 74 28 33 28 2 8 43 5 4 125 425 425 113	51 154 47 83 92 4 7 8 57 6 12 375 1,875 23 287	27 37 28 33 69 4 6 1 10 2 7 170 846 11 14	8 71 8 22 8 8	8 19 7 13 6 1 11 1 2 586 2 2 34	15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
PROVIDENCE COUNTY.	8,760	4,590	4.170	2,481	4,520	842	917	3,096	1,375	978	370	373
Charlestown. Exeter Hopkinton. Narragansett North Kingstown South Kingstown Richmond Westerly. WASHINGTON COUNTY	17 4 42 14 75 99 23 175	8 1 16 9 40 53 9 84 	9 3 26 5 35 46 14 91 229	12 4 34 9 59 72 20 79	2 4 9 5 3 71 94	5 13 -15 -37	1 6 1 2 9 	4 7 20 10 28 34 7 78 188	3 7 18 8 27 28 7 53	1 3 	$ \begin{array}{c} 1 \\ 1 \\ 1 \\ \hline 7 \\ \hline 10 \end{array} $	1 1 1 1 2 2 4

^{*} State institutions not included.

Table I.—Continued.

General Summary of Deaths in the State of Rhode Island during the year 1901.

DEATHS.

	SE	x.	NATI	VITY.	AG GIV		AGGREGA IN YE		AVERA	GE AGE EARS.		
Whole Number.	Males.	Females.	Native.	Foreign.	Males.	Females.	Males.	Females.	Males.	Females.	Aggregate Ages.	Average Age.
25 121 94	10 68 47	15 53 47	19 84 66	6 37 28	9 68 47	15 53 47	433 3,665 1,684	938 2,702 1,419	48.11 53.90 35.83	62.53 50.98 30.19	1,371 6,367 3,103	57.12 52.62 33.01
240	125	115	169	71	124	115	5,782	5.059	46.63	43.99	10.841	45.36
114 56 6 425	53 29 4 205 291	61 27 2 220 	90 48 6 316	24 8 109	53 29 4 205	61 27 2 220	2.207 1,413 244 6,110 	2,947 1,089 98 7,221 11,355	41.64 48.72 61.00 29.80	48.31 40.33 49.00 32.82	5.154 2,502 342 13,331 21,329	45.21 44.68 57.00 31.37
14 19 14 386 14 31 69	6 11 8 186 6 17 38	8 8 6 200 8 14 31	11 18 12 287 13 28 52	3 1 2 99 1 3 17	6 11 8 186 6 17 38	8 6 200 8 14 31	271 499 418 6.784 111 595 1,167	830 345 245 8,781 300 522 1,134	45.17 45.36 52.25 36.47 18.50 35.00 30.71	41.50 43.13 40.83 43.91 37.50 37.29 36.58	601 844 663 15,565 411 1,117 2,301	42.93 44.42 47.36 40.32 29.36 36.03 33.35
96 300 194 143 162 25 30 57 148 37 667 3,444 83 28 479 5,939	47 148 108 71 83 15 17 80 66 19 25 321 1,793 42 1,793 235 3,037	49 152 86 72 79 10 13 27 82 27 12 346 1,651 41 11 11 244 2,902	68 189 157 86 135 25 28 42 98 34 425 2,402 76 319 4,133	28 111 87 57 27 15 50 12 13 242 1,042 7 3 160 1,806	272 47 148 108 70 83 15 17 80 66 19 25 321 1,793 42 16 235 3,035	49 151 86 72 79 10 13 27 82 27 146 1,651 41 11 244 2,901	1,873 3,276 3,839 2,321 2,635 854 924 1,396 1,389 539 877 11,357 60,995 1,895 5,423 100,036	11,657 1,555 4,813 3,778 2,780 3,255 722 676 980 2,417 1,017 533 18,249 61,149 1,488 416 6,973 105,296	39. 85 22. 14 35. 55 33. 16 31. 75 56. 93 54. 35 46. 53 21. 05 28. 37 35. 08 35. 38 34. 07 33. 06 23. 08	42.39 31.73 28.56 43.93 38.61 41.20 72.20 42.61 29.48 37.67 44.42 38.29 37.04 36.17 3.17 3.17 3.18 36.30	21,502 3,428 7,589 7,617 5,101 5,890 1,576 1,600 2,376 3,806 1,410 24,606 122,144 3,292 12,396 205,332	35.71 25.88 39.26 35.92 36.36 63.04 53.33 41.68 25.78 33.83 38.11 36.89 35.47 39.66 35.00 25.88
19 15 48 17 72 82 26 115	12 7 26 12 35 42 9 55	7 8 22 5 97 40 17 60	16 15 41 15 64 74 22 90	3 7 2 8 8 8 4 25	12 7 26 12 35 42 9 55	7 8 22 5 36 40 16 60	657 415 1,201 640 1,570 1,963 397 2,676	395 529 1,029 304 1,926 1,857 1,049 2,960	54.75 59.29 46.19 53.33 44.86 46.74 44.11 48.65	56.43 66.13 46.77 60.80 53.50 46.43 65.56 49.33	1,052 944 2,230 944 3,496 3,820 1,446 5,636	55.86 62.98 46.46 55.53 49.24 46.59 55.62 49.01

Table I.—Continued.—Recapitulation.

General Summary of Births and Marriages in the State of Rhode Island during the year 1901.

			В	IRTHS	3.			MARRIAGES.								
		SE	x.		PAREN	TAGE.			NATIVITY.							
COUNTIES.	Whole Number.	Males.	Females.	Native.	Foreign.	Native Father. Foreign Mother.	Foreign Father. Native Mother.	Whole Number.	Native.	Foreign.	Native Groom. Foreign Bride.	Foreign Groom. Native Bride.				
Bristol	330	188	142	79	180	38	33	93	30	33	9	21				
Kent	971	523	448	258	501	80	132	257	113	92	29	23				
Newport	782	423	359	319	334	66	63	212	100	54	39	19				
Providence	8,760	4,590	4,170	2,481	4,520	842	917	3,096	1,375	978	370	373				
Washington	449	220	229	289	94	37	29	188	151	18	10	9				
STATE INSTITUTIONS.																
Whole State	11,292	5,944	5,348	3,426	5,629	1,063	1,174	3,846	1,769	1,175	457	445				

TABLE I.—Concluded.—RECAPITULATION.

General Summary of Deaths in the State of Rhode Island, by Counties, during the year 1901.

						D	EATHS.					
	SE	x.	NATI	VITY.		ES EN.		ATE AGE		GE AGE EARS.		
Whole Number.	Males.	Females.	Native.	Foreign,	Males.	Females.	Mules.	Females.	Males.	Females.	Aggregate Ages.	Ауегике Аке.
210	125	115	169	71	124	115	5,782	5,029	46.63	43.90	10,811	45.36
601	291	310	460	141	291	310	9,974	11,355	34.27	36.63	21,329	35,49
547	272	275	421	126	272	275	9,845	11,657	36.19	42.39	21,502	39.31
5,939	3,037	2,902	4,132	1,807	3,035	2,901	100,036	105,296	32.96	36.30	205,382	34.59
394	198	196	337	57	193	194	9,519	10,049	48.08	51.80	19,568	49.92
245	143	102	135	110	143	102	7,089	4,979	49.57	48.81	12,068	49.26
7,966	4,066	3,900	5,654	2,312	4,063	3,897	142,245	148,365	35.01	38.07	290,610	36.51

Table II.—BIRTHS, 1901.

Arranged by Months, Sexes, and Divisions of the State.

					DI	VIS	ions o	F T	HE STA	TE,		
MONTHS.	SEX.	Whole State.	Bristol County.	Kent County.	Newport County Towns.	Newport City.	Providence County Towns.	Central Falls.	Pawtucket.	Providence City.	Woonsocket.	Washington County.
January	Males	498	16	46	8	36	51	24	54	209	34	20
	Females.	454	9	44	8	24	54	18	35	201	47	14
	Total	952	25	90	16	60	105	42	89	410	81	34
February	Males	453	11	31	14	24	56	21	40	182	54	20
	Females.	406	13	30	4	29	62	17	44	145	40	22
	Total,	859	24	61	18	53	118	38	84	327	94	42
March	Males	499	19	58	10	24	62	26	25	210	40	25
	Females.	441	17	37	2	17	63	17	46	184	35	23
	Total	940	36	95	12	41	125	43	71	394	75	48
April	Males	453	16	33	6	20	69	17	46	175	47	24
	Females	402	9	31	6	16	51	14	36	182	36	21
	Total	855	25	64	12	36	120	31	82	357	83	45
May	Males	456	11	39	13	27	52	32	35	175	55	17
	Females	386	11	28	7	28	50	22	44	148	32	16
	Total	842	22	67	20	55	102	54	79	323	87	33
June	Males	462	15	37	10	25	63	23	42	187	41	19
	Females.	453	11	27	4	22	77	22	41	193	34	22
	Total,	915	26	64	14	47	140	45	83	, 380	75	41
July	Males	506	18	53	7	27	63	27	46	213	35	17
	Females	503	12	60	8	16	64	17	54	221	32	19
	Total	1,009	30	113	15	43	127	44	100	434	67	36

TABLE II.—BIRTHS.—Concluded.

Arranged by Months, Sexes, and Divisions of the State.

MONTHS.	SEX.	Whole State.	ınty.				ıty					3
MONTHS.		Whole	Bristol County.	Kent County.	Newport County Towns.	Newport City,	Providence County Towns.	Gentral Falls.	Pawtucket.	Providence City.	Woonsocket.	Washington County.
August	Males	562	18	45	13	30	69	31	49	243	43	21
	Females	494	15	37	12	21	69	18	53	207	37	2:
	Total	1,056	33	82	25	51	138	49	102	450	80	40
September	Males	511	13	44	8	23	73	21	47	219	54	!
	Females.	434	10	41	13	24	70	19	45	164	40	8
	Total	945	23	85	21	47	143	40	92	383	94	17
October	Males	501	21	40	5	18	82	22	29	218	45	21
1	Females	447	8	36	9	16	78	14	43	187	36	20
	Total	948	29	76	14	34	160	36	72	405	81	41
November	Males	528	16	51	11	19	61	23	52	234	45	11
	Females	446	16	41	10	33	75	19	37	171	33	11
	Total	969	32	92	21	52	136	42	89	405	78	25
December	Males	520	14	46	11	34	68	26	44	218	43	10
	Females	482	11	36	7	23	59	26	32	$21\overline{0}$	50	28
	Total	1,002	25	82	18	57	127	52	76	428	93	44
Whole Year	Males	5,944	188	593	116	307	760	 293	500	2,488		996
THOIC LEATT.	Females	5,348				1		223		2,486		
	Total									4,696		

Table III.—PLURALITY BIRTHS.—1901.

Arranged by Months, Sexes, and Divisions of the State; and showing the Nativity of the Purents.

=	Kent County. Newport County. * Newport City.	 .:	:	:		:	:	:	:	:	:	:	:	0.5	
DIVISIONS OF STATE.						2.6		24	-			1		1 2	
ONS OF THE TATE.	Providence County.† Providence City. Washington County.	œ	65 60 44	5	. 3	00 00	1 3 5	25 20 70	8		. 6	4	٠ ده	47 51	*No
	American. American. American. American. American.	: : : :	5 :		625	: :	8 2 1 1	1 5 1		: : ::	: -	1 :		7 31 1	Not including Newport city
e ^r	British American. English French.	1 ::	:	:	:	:	:	:	cs:	:		:	-:-	65 80 4	ng New
	French-Canadian. German. Irish.	:	:	-	33 :	4 1 1	1		c≀ :	cs:	;		:	1 2 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	port eit
	Italian. Polish. Portuguese.	1 3	1 ::	1 1 :	: :	:	:		:	:	:	; ;	1 1	15 2 3	
	Russian. Swedish. American Father.	:	:	:	:	:	-	:	-	:	:	: :	:	83 70 	
1	English Mother. American Father. FrCanadian Mother.	:	:	:	:	:	.:	<u>:</u> :	:	-	1 1		:	4	+ Not in
NATIVITY	American Father. Irish Mother. American Father.	:	1 :	:	:	i	:	-	:	:	-	:	:	တ	neludir
OF	Scotch Mother, American Father, Swedish Mother,	:	:	-:	:	1	:	:		:	:	:	:	55	g Prov
THE PA	British-Amer. Father. American Mother. British-Amer. Father.	:	:	:	:	:	-	:	:	:	:	:	:	1	Not including Providence city
Parents.	Irish Mother. English Father.	:	-	:	:	:	:	:	:	:	:	:	:	cs .	city.
	FrCanadian Father. American Mother. German Father.	ુ:	-	<u>:</u> :	<u>:</u> :	-	-	_	<u>:</u> :	:	:	:		4	
	American Mother. Hungarian Father. Russian Mother.		:	:	-	:	:	:	:	-	:	:	-		
	Irish Father. American Mother.		<u>:</u>	:	<u>:</u> :	:_	:	<u>:</u> :	:	:	:-		:	Ç\$	
	English Mother. FrCanadian Mother. FrCanadian Mother.	- :	:		-	:	:	:	:	-:-	:	:			
	Portuguese Father, American Mother,	-	:	:	:	:	:	:	:	:	:	:	:	-	
	Russian Father.		:	:	<u>:</u>	:	<u>:</u>	:	:	:	:	:	:		
	American Mother. Swedish Father.	:	:		-:	<u>:</u>	<u>:</u>	:	:	:	:	<u>:</u>	:		

TABLE IV.—MARRIAGES, 1901.

Arranged by Months and Divisions of the State,

			П	IVIS	HON	s o:	F T	HE S	STATE			
MONTHS.	Whole State, 1901.	Bristol County.	Kent County.	Newport County Towns.	Newport City.	Providence County Towns.	Central Falls.	Pawtucket.	Providence City.	Woonsocket.	Washington County.	Whole State, 1900.
January	889	7	26	3	15	32	16	30	162	26	22	326
February	287	9	19	2	7	27	15	32	135	27	14	308
March	125	2	7	5	4	14	1	15	66	6	5	129
First Quarter	751	18	52	10	26	73	32	77	363	59	41	763
April	392	10	16	4	21	40	19	40	193	34	15	331
May	254	7	24		5	32	12	21	123	17	13	255
June	517	14	34	3	20	49	19	52	256	49	21	527
Second Quarter	1,163	31	74	7	46	121	50	113	572	100	49	1,113
July	294	6	15	5	16	44	4	25	148	18	13	277
August	264	9	20	3	13	26	11	20	138	17	7	281
September	343	10	14	3	13	48	15	24	160	36	20	394
Third Quarter	901	25	49	11	42	118	30	69	446	71	40	952
Oetober	375	11	26	7	24	34	17	44	178	20	14	408
November,	444	6	37	4	21	45	21	51	207	28	24	434
December	212	2	19	8		3 14	4	21	109	9	20	263
Fourth Quarter	1,031	19	S:	19	51	93	42	116	494	57	58	1,108
Whole Year	3,846	93	25	47	16	5 405	154	375	1,875	287	188	3,936

Table V.—DEATHS, 1901.

Arranged by Months, Sexes, and Divisions of the State.

					DIV:	ISIO	NS OF	тн	ES	TATE.			
MONTHS.	SEX.	Whole State.	Bristol County.	Kent County.	Newport County Towns.	Newport City.	Providence County Towns.	Central Falls.	Pawtucket.	Providence City.	Woonsoeket.	Washington County.	State Institutions.
January	Males	381	7	30	8	9	52	16	28	175	26	16	14
	Females	361	10	29	7	15	44	15	25	166	18	18	14
	Total	742	17	59	15	24	96	31	53	341	44	34	28
February	Males	333	10	28	4	14	53	10	20	138	21	29	16
	Females	343	10	34	2	10	49	16	35	140	17	22	8
	Total	676	20	62	6	24	102	26	55	278	38	51	14
March	Males	384	13	27	6	20	56	13	34	171	12	21	11
	Females	377	4	33		15	42	14	41	163	18	26	12
	Total	761	17	60	15	35	98	27	75	334	30	47	23
April	Males	328	12	21	7	16	43	12	20	147	10	24	16
-	Females	310	3	20	2	24	52	15	27	130	14	15	8
	Total	638	15	41	9	40	95	27	47	277	24	39	24
May	Males	331	9	24	3	18	49	9	24	148	19	14	. 14
	Females	265	13	18	5	15	31	6	14	114	26	16	7
	Total	596	22	42	s	33	80	15	38	262	45	30	21
June	Males	279	9	13	5	7	37	8	21	127	20	12	20
	Females	248	7	21	9	18	35	3	20	103	18	9	5
,	Total	527	16	34	14	25	72	11	41	230	. 38	21	25
July	Males	372	9	16	13	20	47	8	32	176	27	16	8
	Females	360	11	30	8	9	51	21	24	152	32	10	12
1 (Total	732	20	46	21	29	98	29	. 56	-328	59	26	20

Table V.—DEATHS, 1901.—Concluded.

Arranged by Months, Sexes, and Divisions of the State.

					DIV	1810	NS OF	TI	E S	ТАТЕ.			
MONTHS.	SEX.	Whole State.	Bristol County.	Kent County.	Newport County Towns.	Newport City.	Providence County Towns.	Central Falls.	Pawtucket.	Providence City.	Woonsocket.	Wushington County.	State Institutions,
August	Males	360	19	36	9	18	39	12	32	152	23	10	10
	Females	375	8	27	7	20	53	11	40	156	23	23	7
	Total	735	27	68	16	38	92	23	72	308	46	33	17
September 👑	Males	360	8	35	11	16	42	16	31	162	14	11	14
	Females	335	9	29	s	22	47	10	32	140	22	11	
	Total	695	17	64	19	38	89	26	63	302	36	22	19
October	Males	327	7	21	5	22	35	17	26	147	23	16	. 8
	Females	321	15	21	4	16	36	13	33	142	12	19	10
	Total	648	22	42	9	38	71	30	59	289	35	35	18
November	Males	284	11	20	6	19	44	8	25	113	15	13	10
	Females	297	17	27	s	18	30	17	27	114	20	12	
	Total	581	28	47	14	37	74	25	52	227	35	25	1
December	Males	327	11	20	9	7	43	19	28	137	25	16	1
	Females	308	s	21	6	18	39	11	28	131	24	15	
	Total	635	19	41	15	25	82	30	56	268	49	31	1
1			1		-			_					
Whole Year	Males	4,066	125	291	86	186	540	148	321	1,793	235	198	14
	Females	3,900	115	310	75	200	509	152	340	1,651	244	196	10
	Total	7,966	240	601	161	386	1,049	300	667	3,444	479	394	24

TABLE VI.—DEATHS, 1901.

Exhibiting the Whole Number, the Proportion to Population, and Number of each Sex, in every Town and Division of the State.

		1901, Illy	000 on:	DEATHS.	
TOWNS AND DIVISIONS OF THE STATE.	Total Deaths.	Population, 1901, geometrically estimated.	Deaths per 1,000 of population.	Sex.	Number of each sex.
Barrington	25	1,111	22.5	Males Females	10 15
Bristol	121	7,090	17.1	Males Females	68 53
Warren	94	5,195	18.1	Males Females	. 47 47
Bristol County	240	13,396	17.9	Males Females	$\frac{125}{115}$
Coventry	114	5,324	21.4	Males Females	53 61
East Greenwich	56	2,754	20.3	Males Females	$\frac{29}{27}$
West Greenwich	6	592	10.1	Males Females	$\frac{4}{2}$
Warwick	425	21,802	19.5	Males Females	$\frac{205}{220}$
KENT COUNTY	601	30,472	19.7	Males Females	291 310
Jamestown	14	1,622	8.6	Males Females	8
Little Compton	19	1,137	16.7	Males Females	11 8
Middletown	14	1,497	9.4	Males Females	8
NEWPORT CITY	386	22,403	17.2	Males Females	186 200
New Shoreham	14	1,410	9.9	Males Females	68
Portsmouth	31	2,130	14.6	Males Females	17 14

Exhibiting the number of Deaths in each Period of Life, in every Town and Division of the State.

						PE	RIODS	of L	IFE.							_
Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 10 70.	70 to 80.	80 to 90.	90 and over.	Age unstated.
	1				1			1		1	2 2	1 4	2 2	1 4		
6	1	1		1	2	1 1	1	4 3	6 4	38	7 3	18 8	12 8	9	3	
17 15	2 2	1	1 3			$\frac{\dots}{2}$	1	4 4	$\frac{1}{2}$	1	$\frac{2}{3}$	6 5	5 5	7 2	1 1	
24 19	3 4	1 1	1 8	1	$\frac{1}{2}$	1 3	1 2	9 8	7 6	3 10	11 8	25 17	19 15	17 12	1 4	
11 7	3 4	2 2		3	$\frac{2}{2}$		1	1	4	1 3	3 10	9 7	17 10	1 9	1	
3 4	1				2	1	3	1	5 2	5 3	8 4	3 1	6	3 2		
									1	1		8	1			
64 59	15 8	6 5	2 5	6	2 4	6 2	4 6	9 17	12 13	20 17	22 22	15 21	17 16	11 16		:::
78 70	19 12	8 7	2 5	3 6	4 8	6-3	5 10	9 19	17 20	27 23	28 36	30 29	40 31	15 27	4	
$\frac{2}{1}$					1			$\frac{\dots}{2}$		1	2	1	1	2		
$\frac{2}{\cdots}$	1		1					$\frac{1}{2}$			1	3	3 2	1		• • •
· · · i				1			1		1	2	2 1	3	1	1		
34 83	5 6	5 2	1 3	1	2 4	3	15 6	16 17	15 10	21 18	20 19	19 26	15 34	13 21	3	
	2	1	1				1		1	1	1		2	1		
3 2	2	1	1			1		3 2	1	1	2	1	3		1	

Exhibiting the Whole Number, the Proportion to Population, and Number of each Sex, in every Town and Division of the State.

	_	1901, 11y	000 on.	DEATHS.	
TOWNS AND DIVISIONS OF THE STATE.	Total Deaths.	Population, 1901, geometrically estimated.	Deaths per 1,000 of population.	Sex.	Number of each sex.
Tiverton	69	3,003	23.0	Males Females	. 38 31
NEWPORT COUNTY	547	33,202	16.5	Males Females	$\frac{272}{275}$
Burrillville	96	6,375	15.1	Males Females	47 49
CENTRAL FALLS	300	18,585	16.1	Males Females	148 152
Cranston	194	11,630	16.7	Males Females	108 86
Cumberland	143	8,970	15.9	Males Females	$\begin{array}{c} 71 \\ 72 \end{array}$
East Providence	162	12,533	12.9	Males Females	83 . 79
Foster	25	1,135	22.0	Males Females	15 10
Glocester	30	1,403	21.4	Males Females	17 13
Johnston	57	3,918	14.5	Males Females	30 27
Lincoln	148	9,015	16.4	Males Females	66
North Providence	46	3,115	14.8	Males Females	19 27
North Smithfield	37	2,345	15.8	Males Females	25 12
PAWTUCKET	667	40,435	16.5	Males Females	321 346
PROVIDENCE CITY	3,444	180,355	19.1	Males Females	1,793 1,651

Exhibiting the number of Deaths in each Period of Life, in every

Town and Division of the State.

						Pı	ERIOD	s or	Life.							
Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	% to 90.	90 and over.	Age unstated.
14	4	1			 1	1		4 2	1 4	2 4	4	3	4 3	5 1	1	
57 44	9 12	7 3	$\frac{2}{6}$	1	3 6	5 3	15 8	25 25	19 15	26 20	28 25	28 30	26 46	18 27	3	
11 7	3 4	1 2	1 2		1		3	2 5	3 10	3	4	9 5	7 2	3 2		
52 43	10 5	6 4	. 5 5	1	8	$\frac{2}{2}$	4	13 18	3 6	11 14	12 11	12 18	5 10	4 4		
19 11	6 3	3 2	3 2	3	2	$\frac{2}{3}$	4	9	8	9	9 5	9	13 19	9 5	ļ	
10 11	6	2 2	2		4 2	4 2	1	6	5 9	5 3	7 7	11 7	7 11	1 2	3	1
17 19	3 2	3	1	- 1 1	3	2 1	4 2	6	4 5	11 6	7 7	4 11	9 11	5 7	1	
								1	1		2	3	5 1	14	1	
3	2									1	2 2	4 2	6 4		1	
5 9	1			1			1	3	3 2	2 5	4	3 3	6	3	2	
$\frac{28}{17}$	5	2	2 3	2 2	3 5	$\frac{1}{2}$	2 3	4 5	3 11	6	4 5	6	4 7	1 2	1	
6	1	1		1	1 1		$\frac{\dots}{2}$	1 2	i 1	1	3	2 7	1 2	1		
2 2	1	1			2		1	6 2	2	2	$\frac{2}{2}$	3	3		1	
81 69	9	7 5	4 5	3	8 14	2 2	8	21 36	21 24	26 .28	32 38	53 50	31 39	12 20	2	
387 332	105 94	33 23	20 20	17 16	40 37	25 17	46 38	172 149	158 148	193 138	213 185	183 186	137 149	57 103	7 16	

Exhibiting the Whole Number, the Proportion to Population, and Number of each Sex, in every Town and Division of the State.

		1901, 111y	000 on.	DEATHS.	
TOWNS AND DIVISIONS OF THE STATE.	Total Deaths.	Population, 1901, geometrically estimated.	Deaths per 1,000 of population.	Sex.	Number of each sex.
Scituate	83	3,364	24.7	Males Females	42 41
Smithfield	28	2,061	13.6	Males Females	17 11
WOONSOCKET	479	28,931	16.5	Males Females	$\frac{235}{244}$
PROVIDENCE COUNTY	5,939	334,170	17.8	Males Females	3,037 2,902
Charlestown	19	985	19.3	Males Females	$\frac{12}{7}$
Exeter	15	834	18.0	Males Females	7 8
Hopkinton	48	2,589	18.5	Males Females	$\frac{26}{22}$
Narragansett	17	1,542	11.0	Males Females	12 5
North Kingstown,	72	4,147	17.4	Males Females	35 37
South Kingstown	82	5,080	16.1	Males Females	$\frac{42}{40}$
Richmond	26	1,498	17.4	Males Females	9 17
Westerly	115	7,652	15.0	Males Females	55 60
Washington County	394	24,327	16.2	Males Females	198 196
_					
STATE INSTITUTIONS	245	2,321	105.6	Males Females	143 102

Exhibiting the number of Deaths in each Period of Life, in every Town and Division of the State.

						PE	RIODS	or L	IFE.							
Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	Age unstated.
7 10	3 1	1	· · · · · · · · · · · · · · · · · · ·		1		1 1	1 8	2 2	2 4	8	8	4 5	4 6		
5 3				1	1	1	1		· · · · · · · · · · · · · · · · · · ·	$\frac{2}{1}$	1 1		5 1	1	 1	1
97 65	14 22	5 2	6	1 5	68	6 2	3 7	17 15	13 24	17 15	11 17	14	$\frac{17}{24}$	7 10	1 2	
731 608	$\frac{167}{152}$	63 42	44 46	35 29	80 75	45 31	73 67	$\frac{262}{257}$	$\frac{227}{256}$	284 234	$\frac{321}{286}$	323 329	260 292	108 167	12 30	2
	1	1			1			1	1		1	3 2	2	1	2	
								1	1		3		3	1 3		
1 2	i				3	1 1	2	1	2 1	2 2	3	6 10	4 2	1		
1	1						1		1	2	1 2	1	2	2	1	
5 5	1					 1	1	2 2	$\frac{2}{2}$	7 4	5 2	6 4	4	2 5	4	
8	$\frac{1}{2}$	1		2			$\frac{1}{2}$	4	3 4	3	2 2	7 3	6 7	7 6	1 2	
		1			1			2	1	2 2	· · · · · · · · · · · · · · · · · · ·	3	1 5	5		1
8 11	2				2	$\frac{\ldots}{2}$		2	2	7 3	8 7	8 11	10	5 9	1 2	
23 24	6 5	2 2			7 2	1 4	5 2	7 11	11 13	23 12	23 17	34 31	31 32	18 30	5 9	2
<u>i</u>	···i·			. 1		1	7 2	15 4	16 12	35 20	22 15	22 19	19 22	5 6		

(RECAPITULATION.)

Exhibiting the Whole Number, the Proportion to Population, and Number of each Sex, in every Division of the State.

		01, y	00 .	DEATIIS.	
DIVISIONS OF THE STATE.	Total Deaths.	Population, 1901, geometrically estimated.	Deaths per 1,000 of population.	Sex.	Number of each sex.
Bristol County	240	13,396	17.9	Males	125 115
KENT COUNTY	601	30,472	19.7	Males	291 310
NEWPORT COUNTY	547	33,202	16.5	Males	272 275
PROVIDENCE COUNTY	5,939	334,170	17.8	Males Females	3,037 2,902
Washington County	394	24,327	16.2	Males	198 196
STATE INSTITUTIONS	245	2,321	105.6	Males Females	143 102
WHOLE STATE	7,966	437,888	18.2	Males	4,066 3,900

(RECAPITULATION.)

Exhibiting the number of Deaths in each Period of Life, in every Division of the State.

						PE	RIODS	of I	JFE.							
Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	Age unstated.
24	3	1	1		1	1	1	9	7	3	11	25	19	17	1	1
19	4	1	3	1	2	3	2	8	6	10	8	17	15	12	4	
78	19	s	2	3	4	6	5	9	17	27	28	30	40	15		
70	12	7	5	6	8	3	10	19	20	23	36	29	31	27	4	•
57	9	7	2	1	8	5	15	25	19	26	28	28	26	18	3	
44	12	3	6	I	6	3	8	25	15	20	25	30	46	27	4	
731	167	63	44	35	80	45	73	262	227	284	321	323	260	108	12	2
608	152	42	46	29	75	31	67	257	256	234	286	329	292	167	30	1
23	6	2		2	7	1	5	7	11	23	23	34	31	18	5	
24	5	2			2	4	2	11	13	12	17	31	32	30	9	2
				1		1	7	15	16	35	22	22	19	5		
1	1						2	4	12	20	15	19	22	6		
913	204	81	49	42	95	59	106	327	297	398	433	462	395	181	21	3
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TABLE VII.—CAUSES OF DEATH, 1901.

Arranged Alphabetically; showing the Number of each Sex who died from each cause, in each mouth and in the whole year 1901; also the Number of Native-born and Foreign-born, and also the Number of Native and of Foreign Parentage, from each cause, for the year.

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Table VII.—CAUSES OF DEATH, 1901.—Continued.

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Table VII.—CAUSES OF DEATH, 1901.—Continued.

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TABLE VII.—CAUSES OF DEATH, 1901.—Continued.

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TABLE VII.—CAUSES OF DEATH, 1901.—Continued.

Table VII.—CAUSES OF DEATH, 1901.—Continued.

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Table VII.—CAUSES OF DEATH, 1901.—Continued.

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Table VII.—CAUSES OF DEATH, 1901.—Continued.

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TABLE VII.—CAUSES OF DEATH, 1901.—Continued.

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CAUSES OF DEATH.	Jan.	H	Feb.	M	Mar.	Apr.		May.		June.		July.	Ā	Aug.	Š	Sept.	Ō	Oct.	Nov	·.	Dec.		NATIVITY	ITY.	PARENT AGE.	E.	86	SEX.	
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Table VII.—CAUSES OF DEATH, 1901.—Continued.

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Table VII.—CAUSES OF DEATH, 1901.—Continued.

CAUSES OF DEATH.	Jan.	<u> </u>	Feb.	Mar.		Apr.	May.		June.		July.	Aug.		Sept.		Oet.	Nov.		Dec.	NAT	NATIVITY.	PAF	PARENT- AGE.		SEX.	
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Table VII.—CAUSES OF DEATH, 1901.—Continued.

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	M F.	M. F.	M. F.	M. F.	М. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	Am. For.	r. Am.	For.	Ä.	~
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TABLE VII.—CAUSES OF DEATH, 1901.—Continued.

	Jan.	Feb.	Mar.	Apr.	. May.		June.	July.	Aug.	Sept		Oct.	Nov.	Dec.	NATIVITY	<u> </u>	AGE.	SEX.	١,,
CAUSES OF DEATH.	M.	M. F.	M. F.	M.	F. M.	F.	E.	M. F.	M. F	N.	F.	£.	M. F.	M.	Am. For	Am.	For.	Ä.	표
Suicide by Poison, Arsenic Carbolic Acid Morphine Paris Green "Rough on Rats" Congenital Tabes Dorsalis. Mesenterica Trismus Nascentium Tubercular Enteritis. Laryngitis. Meningitis. Tuberculosis of Abdominal Organs. Rine-joint. Knee-joint Liver. Mesenteric Glands.		35:				837 :		: : : : : : : : : : : : : : : : : : :				: : : : : : : : : : : : : : : : : : :		50	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		83 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	- c - d - c - c - c - c - c - c - c - c	

Table VII.—CAUSES OF DEATH, 1901.—Concluded.

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	N.	E. N	M.F.	- X	2	M.	12.	M.	压	N.	7	M. F	F. M.	- F	M	표	M	뀰	M.	<u>5.</u>	M.	2	Am.	For.	Am.	Fo	N.	7.
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TABLE VIII.—CAUSES OF DEATH, 1901.

Arranged Alphabetically; showing the Number of each Sex who died from each cause, in each Period of Life.

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M. F. M. F.
M. F. M. F.
M. F. M. F.
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M. F. M. F.
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M. F. M. F.
M. F. M. F.
1 1 1 2 2 2 2 2 2 2
M. F. M. F.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M. F. M. F. M. F. M. F. M. I. I. I. I. I. I. I. I. I. I. I. I. I.
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TABLE VIII.—CAUSES OF DEATH, 1901.—Continued.

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TABLE VIII.—CAUSES OF DEATH, 1901.—Continued.

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Table VIII.—CAUSES OF DEATH, 1901.—Continued.

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TABLE VIII.—CAUSES OF DEATH, 1901.—Continued.

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Table VIII.—CAUSES OF DEATH, 1901.—Continued.

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Table VIII.—CAUSES OF DEATH, 1901.—Continued.

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Table VIII.—CAUSES OF DEATH, 1901.—Continued.

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Table VIII.—CAUSES OF DEATH, 1901.—Continued.

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TABLE VIII.—CAUSES OF DEATH, 1901.—Continued.

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Table VIII.—CAUSES OF DEATH, 1901.—Continued.

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		Suicide by Inhalation of form. by Shooting Carbolic Acid. Morphine. Paris Green "Rough on Rats." Syphilis. Congenital. Tabes Dorsalis. Thrombosis. Tonsilitis. Trismus Nascentium Trismus Nascentium Trismus Nascentium Tubercular Enteritis. Laryngitis. Mennigitis. Peritonitis. Tuberculosis of Abdo	gans. Hip-joint Knee-joint. Liver. Mesenteric Glands. Pulmonary General. Tumor of Abdomen.
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Table VIII.—CAUSES OF DEATH, 1901.—Concluded.

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5 to 10.	M. F. M. F. N	-: -:	:	:	÷	:	:	:	:	21
3 4 to 5.	М. F. М.	:	:	:	:	:	÷	:	:	:
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CAUSES OF DEATH.			:	[esentery	:		er, Rodent	:	lcers, Numerous	ause Unknown

Table 1X.—CLASSIFICATION AND PERCENTAGE, 1901.

Mortality in the State and in each Division ascribed to each Cause and Class of Canses.

		Bristol County.	0.00	99.58	약.		25.42	15.00	8.75
		Keut County.	00.	50	.50		20.96	12.48 15	8.32
	NOIS		0.100	99.					
	DIVIS	Newport County Towns.	100.0	99.22 100.00	:_		22.98	18.01	9.94
	ЕАСН	Zewport City.	100.00		œ.		26.17	15.54	9.51 12.48
	HS IN	Providence County Towns.	100.00	99.30	.70		35.74	12.59	9.51
,	DEAT	Central Falls.	00.00	99.55 100.00	i		26.33	12.33	8.00
	Percentage of Deaths in each Division.	Рачтиекет.	00.00	99.55	5.		25.79	11.99	11.24
	CENTA	Providence City.	00.00	39.45	.55		29.04	9.47	8.42
	PER	Woonsocket,	00.00	99.58	£.		23.38	11.69	89.9
		Washington County.	00.00	99.49	.51		24.62	12.18	10.41
	tate.	Percentage in Whole S	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00	99.47	83.		26.59	11.42	9.04 10.41
		CAUSES OF DEATH.	ALL CAUSES	CAUSES SPECIFIED	CAUSES UNSPECIFIED	CLASSES.	I. General Diseases	II. DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.	III. Diseases of the Circulatory Apparatus.
		Whole State.	7.966	7,924	¥		2,118	910	730
		Washington County.	304	368	C)		3	84	14
	NOI	Woonsocket.	479	477	¢5		112	36	32
	cii Division	Ргоуідепсе Сіту.	3,444	3,425	19		1,000	326	230
	EACH	Рам сискес.	199	664	က	•	17.2	98	10
	STAT	Central Falls,	300	300	:		7.9	55	24
	NUMBER OF DEATHS IN EACON OF THE STATE.	Providence County Towns.	1,294	1,285	6		333	163	123
	0F D	Newport City.	386	383	ಣ		101	99	48
	BER	Newport County Towns.	161	161	- <u>:</u>		65	29	16
	NUM	Kent County.	601	298	တ		126	72	20
	,	Bristol County.	670	539	Ħ		61	36	23

	-									
10.83	15.83	9.17	:			8.	2.03	5.49	6.93	2
15.81	17.80	7.15	1.33	1.00	ij	.50	6.16	2.99	8.83	.50
8.70	18.63	5.50	<u></u>		:	.69		25. C.S.	5.59	:
10.62	12.18	<u> </u>	1.04		:	1.01	3.83	6.73	82	æ.
13.52	13.52	9.58	1.31	80.	.16	68.	4.17	3.01	5.73	.:0
18.67	17.67	3.67	1.67			1.33	6.33	1.00	3.00	45
15.29	17.74 17.09	4.65	1.05	.15		54.	4.65	3.15	4.02	÷
12.48	17.74	7.98	55	₹.	90.	.8	3.95	55 55	5.69	100
11.27	39.85	3.96	1.46	34.	ė.	8	4.18	<u>.</u>	3.97	4.
16.50		6.85	92.	1.05	53.	1.02	3.55	5.58	78. 7	.51
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IV. Diseases of the Respiratory Apparatus.	V. DISEASES OF THE DIGESTIVE APPARATUS	VI. DISEASES OF THE GENTO-URINARY APPAR-	VII. Puerperal State	VIII. DISEASES OF THE SKIN AND CELLULAR THSSUE.	IX. DISEASES OF THE ORGANS OF LOCOMOTION	X. Malformations	XI, Early Inpancy	XII. Old Aqe	XIII. Appections produced by external causes.	XIV, 42 ILL-DEFINED DISEASES
1,058	1,365	591	95	35	t-	57	Ë	183	804	3
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105	114	- 50	t-	-	:	33	81	25	65	83
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Table IX—CLASSIFICATION AND PERCENTAGE, 1901.—Continued.

		Bristol County.			30.3	£.	į	į	į	:	;	83	3.33	.43	3.33	:
		Kent County.			.83	1.	:	17.	:	- :	1.83	.33	1.00	.83	1.33	.33
	Percentage of Deaths in each Division	.sawoT			1.86	3.	- <u>:</u> :	:	:	:	-	1.86	1.24	:	.63	
	n Dr	Newport County			2.07	98.	96		55	36	.52	1.30	.26	<u>:</u> :	.26	
	IN EAC	Newport City.			24	-39	- <u>-</u>	.15	.46	80.	.93	1.16	1.70		-39	-:
	ATHS 1	Providence County Towns,					:								•	_:
	F DE	Central Falls.			1.00	.67	.9.	1.33	.89		1.33	00.1	1.33	::	:	-:
	AGE O	Рамтискет.			6.	.45		.15	.15		1.50	1.65	3.83	.15	1.05	
	RCENT	Providence City.			1.53	.17	90.	60.	98.	88.	.64	1.80	1.95	.09	1.16	.17
	PE	Woonsocket.			.63	.21	:	.63	:	.21	.63	1.67	1.46	:	S.	.21
		Washington County.			1.53	.51	:	.25	:	:		.51	3. 10.	:	.35	35
	tate,	Percentage in Whole S			1.29	53	-90:	.19	98.	18.	8.	1.41	1.83	.10	.94	.13
		CAUSES OF DEATH.	Li .	GENERAL DISEASES.	Typhoid Fever	Intermittent Fever	Variola	Measles	Scarlatina	Whooping Cough	Diphtheria and Croup	Diphtheria	Grippe	Cholera Nostras	Dysentery	Erysipelas
		Bertillon Xumbers.			1	*	13	9	5~	~	e	90	10	13	1/7	18
		Whole State.			6 103	83	23	15	25	1.	61	2 113	146	00	55	10
	NOI	Washington County.			<u></u>	c.	<u>:</u>	- 	<u>:</u>	:	<u>.</u>	00	7 10	-	4	_
	Division	Woonsocket.			9	9	:	60	: 6	<u></u>	63	3	2.9	co	9	9
		Providence City.			6 4	ော				-	01		19 6	-	4	
	DEATHS IN EA	Pawtucket,			က	c≀	c≀	4		<u>:</u>	4	20	4	:	:	
	THS 1	Towns. Central Falls.			16	10	-:	C5	9		13	15	€	:		-
	DEA OF T	Newport City. Providence County			00	_	:	-	≎≀		C5	70	-	:	-	
	ROF	Newport County Towns.			ಣ	-	:	<u>:</u> :	:	-:-	:	00	cs.	:	-	-
	NUMBER OF DEATHS IN EACH OF THE STATE.	Kent County.			70		:	-=-	€	1	=	Ç\$	9	cs	00	CS.
	N	: fumoo tossuo		_	£-	-	<u>:</u>	:	:	-:-	:	C5	80	-	œ	-:

Bristol County.

		_	_																					
	.43	7.92	.43		.42			1.25	:	:		1.67	:	:	.43	:	2 .	? .	:	:	:	:	:	<u>:</u>
		8.49	.17	.17	71.		:	Ï.	1.	1	:	88		.S.	æ.	.13	:	85	.s.		.17	99.	:	99.
	:	4.97	39 .	:	:	:	:	.63	:	i	:	3.11	1.24	.62	1.21	:	1.86	:	:	:	:	1.91	:	39 .
÷	:	10.62	:	<u>:</u>	. 36	36	36	36	:	:	:	2.02	1.30	1.30	.36	:	30	9	:	:	:	1.30	:	8
÷	:	10.74	.70	.15	.53	:	.15	.15	.08	.3	:	.93	68.	E	02.	.39	02.	8	: 33	.15	:	1.08	:	£5.
:	£:		:	:	1.33	-:	:	.33	.83	85.	:	1.33	85.	88.	E.	:	:	:	:	:	:	.67	:	-:-
		9 12.67	.45	15	.60	-				•	.15		.15	₹ <u>2</u>	.15			.30		:	:	8	-	<u></u>
-		10.19				:	:	:		:		1.50					:			:	<u>:</u>		:	
	60.	11.30	1.05	.00	.67	.03	90.	.49	.03	.35.	90.	1.43	.49	æ.	:55	08.	.55	93.	330	.17	<u>:</u>	1.13	.19	11.
	.43	10.85	1.04		.21			:		-		18.	.21	.63	ું:	5	27	:	3.	15.	:	.63	:	53
		9.90	:	-	1.27	-	:		:	:	ę.	2.03	1.05	:	1.52	G.	:	92.	:	:	:	1.55	:	i
8	8	10.60	0.2	60.	52	.03	90.	.83	.05	83	30.	1.37	54.	7.	-54	£	.46	₹.	53	.11	.0.	1.05	.05	85
:	:	:	:	:	:	:	:	:	:	:	:	:	E E	:	:	:	:	:	:	:	:	:	:	-
20 Purulent Infection and Septicæmia	Tubercle of Larynx	Tubercle of Lungs	Tubercle of Meninges	Ilydrocephalus	Tubercle, Abdominal	Pott's Disease	Tubercle of Other Organs	Generalized Tuberculosis	Scrofula	Syphilis	Cancer of the Buccal Cavity	Cancer of Stomach and Liver	Cancer of Peritoneum, Intestines, & Rectum	Cancer of Femule Genitals	Cancer of Breast	Cancer of Skin	Cancer of Other Organs	Other Tumors	Rheumatism, Acute Articular	Rheumatism, Chronic, and Gout	Scorbutus	Diabetes	Leukemia	Anæmia and Chlorosis
98	36	207	83	85	63	30														_			-	
65	-1						55	37	35	S 98	39 Ca	40 Car	41 Car	/2 Can	1,3 Can	44 Car	4.5 Can	10 97	1,7 Rh	18 R	8 67	1 0g	53	5/4
		844	99	i-	43	C)	. 25	36 34				07 601						19 46		_			4 53	55
÷	:	68	:	l- :	5 43					36		07	111	21/	1,3	7/7	37 45	97	177	_		6 81 50	4 53	557
<u>:</u>	63	55 89		::	1 2					36		07 601	111	8 59 4.2	48 1.3	7/7	77	19 46	177	_		3 6 81 50	4 53	
	:	389 52 39	:							36		49 4 8 109 70	111	21/	48 1.3	7/7	37 45	19 46	177	_		6 81 50	4 53	557
6	63	55 89	36 5	::	1 2					36		07 601	111	29 8 59 1/2	48 1.3	7 1 1 18 44	37 45	97 19 76	11 1 20 1.7	_		89 8 6 81 50	4 53	
	3	38 68 389 52 39	36 5	::	1 2					36		49 4 8 109 70	111	29 8 59 1/2	48 1.3	7 1 1 18 44	37 45	97 19 76	11 1 20 1.7	_		6 39 3 6 81 50	4 53	
	es es	68 389 52 39	36 5	::	1 2			1 17 26		36		4 10 49 4 8 109 70	1 1 17 1 4 86 41	1 5 29 3 59 42	48 1.3	8 7 1 1 18 44	19 2 37 45	97 19 76	9 11 1 20 4.7	87 6 1 9		2 6 39 3 6 81 50	4 53	
	3	139 38 68 389 52 39	36 5	::	1 2			1 17 26		36		12 4 10 49 4 8 109 70	5 1 1 17 1 4 36 1/1	10 1 5 29 3 59 1/2	48 1.3	8 7 1 1 18 44	9 19 2 37 4.5	97 19 76	9 11 1 20 4.7	87 6 1 9		14 2 6 89 3 6 81 50	4	3 6 2
	3	41 139 38 68 389 52 39	36 5	::	1 2			1 17 26		36		8 12 4 10 49 4 8 109 4.0	5 5 1 1 17 1 4 86 41	5 10 1 5 29 8 59 42	1 9 1 1 19 1 6 48 7.3	8 7 1 1 18 44	8 9 19 2 37 4.5	97 19 76	9 11 1 20 4.7	87 6 1 9		5 14 2 6 39 3 6 81 50	4	3 6 2

TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1901.—Continued.

!!		Bristol County.	:	:			:	3.08	.42	:	.43	8.75	.42	3.08
	, X	Kent County.	86.	:			86	3.33	88.	88	:	5.99	.17	1.53
	PERCENTAGE OF DEATHS IN EACH DIVISION	Newport County Towns.		.69			:	4.35	i	:	:	11.18	:	1.86
	EACH I	Newport City.	8	i			-	4.40	.59	:	.26	7.77	27.	98.
	IS IN	Providence County Towns.	.93	.08				3.40	.16	83	.39	4.48	.31	1.24
	DEAT	Central Falls.	89				:	5.33	:	:	.33	3.67	:	2.00
	GE OF	Рамсискет.	:				:	2.83	.75	.15	.60	5.85	.15	06:
	CENTA	Providence City.	.49	:			.03	1.66	4.	.20	.44	4.56	.12	06.
	PEI	Woonsocket.	£.	:			:	3.55	:	:	.21	3.34	:	2.71
		Washington County.	35.		•		:	92.	:	:	.53	7.36	:	3.05
	tate.	Percentage in Whole S	.50	.03			90.	3.41	.34	.16	38	5.91	.18	1.28
		CAUSES OF DEATH.	Alcoholism	Saturnism	II.	DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.	Encephalitis	Meningitis, Simple	Meningitis, Epidemic, Cerebro-Spinal	Locomotor Ataxia, Progressive	Other Diseases of the Spinal Cord	Cerebral Congestion and Hemorrhage	Cerebral Softening	Paralysis, without Specified Cause
		Bertillon Aumbers.	99	29			09	19	61a	ê9 	63	79	65	99
Ŷ,		Whole State.	40	ςş			33	198	25	13	80	415	14	102
	NO	Washington County.		<u>:</u>			:	ಜ		_:	G.	65	:	13
	DIVISION	Woonsocket.	Ĉ١				:	17	_:	_ <u>:</u>		16	_:	13
	_	Providence City.	17	:			1	5.5	15	-1	15	157	4	31
	EAC.	Pawtucket.	Ė	:			:	19	5	-	4	39	_	9
	SIN	Central Falls.	-	:			:	16	:	:		11	:	9
	DEATHS IN EA OF THE STATE.	Providence County Towns,	3	1			:	31	C5	65	7.0	58	4	16
	r Di	Newport City.	0.0	i			:	17	cs	:	-	89	တ	_
	ER O	Newport County Towns.	:	_			:	1-	:	:	:	18	:	
	NUMBER OF DEATHS IN EACH OF THE STATE.	Kent County.	¢5	i			C/S	20	cs	35	:	98	_	-6
	Z	Bristol County.	€\$:			:	2	-	:	1	<u>25</u>	1	-20

		\$.43	:			:	1.67	6.25	4.	:	:	₹.		:			24	:	:	:
	1	88.	:				:	.s.	6.49	Z	88.	33	:	:	:			1.33	:	38	88.
	:	89.	:	:			:	39	8.08	1.2	:	:	:	:				:	.62	1.2	39.
-	:	1.04	98	98.			:	. 83. 83.	8.81	98.	98.	98.	:	:	.52			:	:	33.	26
2.01		£.	80.	1.08			-8	7.	7.81	0.2.	.16	.16	-80	:	:			94.	:	1.70	38
-	:	1.00	:	:			1.33	1.00	4.83	67	35	:		:	s. x.			1.00	:	6.67	1.33
06:	.15	-08.	.15	.15			. 45	1.20	9.45	-	:	.15	:	:	:			:	:	2.25	1.05
8.	08.	S.	08:				93.	5.00	5.52	Ξ.	31.	03:	.03	90.	60.			11.	:	2.15	.75
-	25.	1.25	£.	2.			:	57	6.05	5.		:	:	:	77.			3.	:	1.25	1.88
.41	:	.25	95				:	92.	8.63	1.02	:	:	:	:	:			255	:	65 25.	1.52
4.	8.	.51	.16	9.			.21	1.3	6.67	88.		.16	.04	.03	60.			.46	.0	20.2	.80
l Alienation			ervous System			псселтону						ş		System			ESPIRATORY S.		Body		
Other forms of Mental Allenation	Epilepsy	Convulsions of Children	Other Diseases of the Nervous System	Diseases of the Ear	111.	DISEASES OF THE CHICCLATORY SYSTEM.	Perlearditis	Endoearditis, Acute	Organic Disease of Heart	Angina Pectoris	Affections of the Arterles	Embolism and Thrombosis	Affections of the Veins	Affections of Lymphatic System	Hemorrhages	IV.	DISEASES OF THE RESPIRATORY APPARATUS.	Affections of the Larynx	Affections of the Thyrold Body	Bronchitis, Acute	Bronchitis, Chronie
68 Other forms of Menta	69 Epilepsy	71 Convulsions of Children	74 Other Diseases of the N	76 Diseases of the Ear		DISEASES OF THE C	77 Perlearditis	78 Endoearditis, Acute	79 Organic Disease of Heart	80 Anginu Peetorls	81 Affections of the Arterles	82 Embolism and Thrombosi	83 Affections of the Veins	84 Affections of Lymphutle	85 Hemorrhages	IV.	DISEASES OF THE R	88 Affections of the Larynx.	89 Affections of the Thyrold	90 Bronchitis, Acute	91 Bronchitis, Chronle
						DISEASES OF THE C										IV.	DISEASES OF THE R				
83 88	69	11	7.2	92	TH.	DISEASES OF THE C	77	38	2.0	80	81	83	88	7:8	85	JV.	DISEASES OF THE R	88		96	91
33 68	24 69	11	7.2	3 76	III.	DISEASES OF THE C	77	107 78	581 79	80 80	81	13 83	88	7:8	- 85	IV.	DISPASES OF THE R	82 28		96	91
89 88	24 69	18 6 1 41 71	7 1 1 13 74	1 3 76	111	DISEASES OF THE C	9 17 77	69 1 8 107 78	190 29 84 581 79	5 1 4 80 80	4 10 81	13 82	8	2	- 85	IV.	DISEASES OF THE R	4 1 87 88		71 6 9 161 50	26 9 6 71 91
89 88	1 7 1 24 69	2 18 6 1 41 71	1 7 1 1 18 74	1 3 76	Ti II	DISEASES OF THE C	8 9 17 77	8 69 1 8 107 78	63 190 29 34 581 79	5 1 4 80 80	4 10 81	1 7 13 82	8	2	3 1 7 85	JV.	DISEASES OF THE R	14 4 1 87 88	1 89	15 71 6 9 161 90	16 112 9 6 12 2
89 88	1 7 1 24 69	2 18 6 1 41 71	1 7 1 1 18 74	1 3 76	H.	DISEASES OF THE C	8 9 17 77	8 8 69 1 8 107 78	13 63 190 29 84 581 79	2 5 1 4 80 80	1 4 10 81	13 82	8	2	1 7 85	IV.	DISEASES OF THE R	3 14 4 1 87 88	1 89	20 15 71 6 9 161 50	4 7 26 9 6 71 91
89 88	1 7 1 24 69	3 3 2 18 6 1 41 71	1 7 1 1 18 74	1 3 76	· ii	DISEASES OF THE C	8 9 17 77	7 8 69 1 8 107 78	101 13 68 190 29 84 581 79	9 2 5 1 4 80 80	2 1 4 10 81	13 82	1 3	2	1 7 85	IV.	DISEASES OF THE R	3 14 4 1 87 88	1 89	22 20 15 71 6 9 161 50	11 4 7 26 9 6 71 91
89 88	1 7 1 24 69	2 18 6 1 41 71	1 7 1 1 18 74	1 3 76	TH.	DISEASES OF THE C	1 4 8 9 17 77	9 7 8 69 1 8 107 78	84 101 13 63 190 29 84 581 79	1 9 2 5 1 4 30 80	1 2 1 4 10 81	1 2 13 82	8	2	3 1 7 85	IV.	DISEASES OF THE R	3 14 4 1 87 88	1 89	2 22 20 15 74 6 9 161 50	2 111 4 7 26 9 6 711 91
89 88 [14 1 7 1 24 69	3 3 2 18 6 1 41 71	1 1 1 7 1 1 18 74	1 3 76	· ii	DISEASES OF THE C	1 4 8 9 17 77	7 8 69 1 8 107 78	18 84 101 13 63 190 29 84 581 79	1 9 2 5 1 4 30 80	1 2 1 4 10 81	1 2 13 82	1 39	2	1 7 85	IV.	DISEASES OF THE R	3 14 4 1 87 88	1 89	22 20 15 71 6 9 161 50	1 2 11 4 7 26 9 6 71 91

Table IX.—CLASSIFICATION AND PERCENTAGE, 1901.—Continued.

	Bristol County.	6.	9.58	÷.	:	:	:	:	:			
ow.	Kent County.	99.	10.82	.17	:		i	.12	:			
DIVISIO	Newport County Towns.		6.31	:	:	:	:	:	:			. 62
ЕАСП	Newport City.	1.81	7.51	93.	:	:	:	:	, !			
Percentage of Deaths in Each Division.	Providence County Towns.	1.08	8.89	85.	:	:	90.	.33	:			
DEAT	Central Falls.	1.67	8.00	:	:			-	:			
GE OF	Pawtucket.	1.65	9.00	.75	:	:	09.	:				.15
CENTA	Providence City.	3.10	5.40	86	90.	.03	.17	:	60.			96.
PEI	Woonsocket.	<u> </u>	6.47	.21	i	i	.91	i	:	-		.21
	Washington County.	2.03	10.15	.25	:	:	:	:				
.eate.	Percentage in Whole S	3.00	7.33	.30	0.	10.	.15	.05	-0.			. S
	CAUSES OF DEATH.	Broncho-Pneumonia	Pneumonia	Pleurisy	Pulmonary Congestion and Apoplexy	Gangrene of Lung	Asthma	Emphysema, Pulmonary	Other Diseases of the Respiratory Apparatus	, A	DISEASES OF THE DIGESTIVE APPARATUS.	Affections of the Mouth, etc
	Bertillon Numbers.	36	93	7/6	95	96	97	86	66			100
	Whole State.	159	583	₹.	C5	1	15	4	ಣ			4 0
No	Washington County.	- xo	40	_	:	:	_ <u>:</u>	:	<u>:</u>			
Division	Woonsocket.	CS	31		<u>:</u>			<u>:</u>	_ <u>:</u>			
	Providence City.	107	186	Ξ	CS		9	_:	တ			≈ -
ATE.	Рамінскеі.	5 11	- 09	20	:	:	4		:			
DEATHS IN EA	Central Falls.		 25					es				
TH	Providence County Towns.	7 14	9 115		:	:			:			:
Ç 4		1	53			•	:	:	:			:
or Dr	Newport City.	-			<u> </u>	\div	<u>-</u> :	<u>:</u>	÷			:
NUMBER OF DEATHS IN EACH OF THE STATE.	Kent County. Newport County Towns. Newport City.		65 10	:	<u>:</u>	<u>:</u>	- <u>:</u> - <u>:</u>	:	:			

10		• 1				•			110	***												.,,
:	:	88.	8.75	:	1.25	:	88.	:	:	:	.83	:	£.	:	.63	3.08	:			÷.	1.91	
	.20	1.83	8.99	.83	1.33	.17.	si Si	.17	:		1.00	.17	20.		99.	3.				82	4.66	:
÷		1.24	7.45	:	1.86	:	:	:		39	3	:	1.24		3	85. 25.	39.			6.5	.85.	
<u>:</u>	.26	:	4.92	:	98.	.52	1.30	:		:	85	:	:	:	98.	3.89	:			26.	5.96	•
İ	:	. 20	6.34	.31	5.00	83	80	i	:	80	.63	.08	.46	:	233	55.53	.08			.39	8.04	.08
÷	:	1.00	9.6	:	1.67	.33	15	:	:	:	.33	:	.67	:	88.	3.00	:			.93	3.93	:
÷	.15	1.85	7.05	:	1.65	:	£.	:	:	:	0G:	.15	10	:	31.	4.05	.30			1.05	3.15	:
.03	.20	.93	8.04	8	1.51	.67	.35	.17	<u>:</u>	.00	8.	.03	7	.03	30	3.11	96.			.76	5.72	83
Ī	:	1.46	16.49	₹.	1.25	:	8.	:	:	<u></u>	34	:	<u>e</u> :	:	:	30 65 65	34			:	3.55	:
÷	Ė	1.05	3.30	6	1.27	.36	£.	:	35	:	91.	:	.51	:	:	3.05	15			55	5.08	:
.01	.15	66.	2.9	14	1.55	7.	4.	60	10.	80	.75	.05	.43	.01	. 35	3.28	33			39:	5.60	Ė
Affections of the Esophagus	Ulcer of Stomach	Other Affections of Stomach	Diarrhœa and Enteritis (under 2 years)	a Diarrhoga and Enteritis, Chronic	Diarrhoea and Enteritis (2 years and over)	Hernia	Intestinal Obstructions	Other Affections of the Intestines	Diseases of the Anus and Fecul Fistulus	Icterus, Gravis	Cirrhosis of Liver	Billary Calculi	Other Affections of the Liver	Affections of the Spleen	Peritonitis, Simple	a Indigestion, Malassimilation, etc	Appendicitis	VI.	DISEASES OF THE GENITO-URINARY APPA- HATUS AND ITS ADNEXA.	Nephritis, Acute	Bright's Disense	Other Diseases of the Kidneys
102	108	10,	105	105a	106	108	1080	cor	109a	011	113	113	11.	115	116	1170	118			611	130	121
=	12	-10	633	Ξ	121	55 55	83	ţ~	-	ນ	3	7	왚	-	0.5	261	3			43	446	0
<u>:</u>	:	4	13	-	10	တ	-	:	-	:	တ	:	C4	:	:	12	C5			-	90	:
		-	-39	-	9	:	20	:	:	_	C5	:	1	:	:	40	C3			:		:
=	t-	왏	277	63	25	23	12	9	:	93	88	-	15	-	£	107	8			36		30
					Ξ	:	r.	:	:	:	9	-	m /	:	-	65	24			{-	25	:
÷	:	တ	83	:	73	-	G1	:	:	<u>:</u>		:	31	:	-	6	≎₹ :			-	10	:
:	:	6	36	7	6.5	93	_	:	:	-	30	-	9	:	တ	65	-			13	101	:
_	:																					
:	-	:	19	:	-	CS	73	:	:	:	23	:	:	:	-	15	:			C\$	82	:
<u>:</u>	-	:	12 19	:		:	:	:	:			:	€2	:	1 1	6 15				_	7.	:
	1	:	52	:	8 3	:	.:	1	:	:	6 1	?	C.5	:	4	11 6	1			_	7.	:

Table IX.—CLASSIFICATION AND PERCENTAGE, 1901.—Continued.

	Bristol County.	:	:	.42	:	:	.48	:	:			
ow.	Kent County.		88		88	:	.13	.17	.17			: 66
Divisi	Mewport County Towns.		:	:	:	i	. 6 9		:			
ЕАСН	Newport City.		.26	:	93.	.26	:	.26	- 35.			£.
DEATHS IN EACH DIVISION	Providence County Towns.	80.	.31		85	:	90.	.16	.23			30
DEAT	Central Falls.		:	-	:	:	:	:	i			. 65
GE OF	Рамтискет.	:	.15	:	15	:	:	.15	:			
PERCENTAGE OF	Providence City.	.06	.38	i	.53	÷	. 68.	71.	.14			2: -8
Per	Woonsocket.	:	.31	:	.21	:	:	:	:			: 3
	Washington County.		.51	- <u>:</u>	92.	<u> </u>	:	.53	<u>:</u>			
state.	Percentage in Whole S	.04	-30	.01	88.	.01	.18	.15	.13			. 10
	CAUSES OF DEATH.	Calculi of Urinary Tract	Diseases of the Bladder	Diseases of Urethra	Diseases of Prostate	Non-Venereal Diseases of the Male.	Tumor, Uterine	Cysts and other Tumors of Ovary	Other Diseases of the Female Genital Organs	VII.	THE PUERPERAL STATE.	Accidents of Fregnancy
	Bertillon Numbers.	193	123	124	125	971	129	131	132			136
	Whole State.		24	-	83	-	14	12	10		(x 6
N.	Washington County.	:	C/S	÷	ಬ	i	:	7	:			: 3
DIVISION	Woonsocket.	:		:		:	:	:	:			: "
	Providence City.	C.S.	55	:	°00	:	10	9	TC.			4 00
NUMBER OF DEATHS IN EACH OF THE STATE.	Рамтискет.	:	-	:	-	:	:	-	:			
E ST.	Central Falls.	<u></u>				:	:		:			: "
DEATHS IN EA OF THE STATE	Providence County Towns.		7	:	1 3	:		~	eo .			5 FC
OF I	Newport City.						<u>:</u>					:
BER	Yewport County Towns.	<u>:</u>	: :		::	-	_	:	:			
T.M.	Kent County.											: '

Bristol County.

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99 : 83			%	35 SE
99	.50	Ε :	04.	% 8
89 : :		: :	8	7
8 8		: :	1.04	
0. 80		: : 	68.	3. % .8 .8 .8
			1.33	
.45 1.33			5	69
35	.08 .09	.03	Z.	3.66 4.65 6.00
		₽. :	3.	
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.53	80.1	€;·	1.03	3.30
. 28. . 80.	81. 80. 80.	.08	5-	3.95 5.95
Septicamia, Puerperal	Diseases of the Skin and Cellular Theste. Gangrene. Furuncle (Carbuncle)	IX. DISEASES OF THE ORGANS OF LOCOMOTION. Affections of the Bones (non-tuberculous) Arthritis and Other Affections of the Joints.	X. Malformations.	EARLY Congenital Debility. Other Diseases of Et
138	143 143 144	146	150	
8 C 3	7 3 6 3	9 11	- 13	315
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		- :	20	19
5 5 6	9 1 8 4		\$\frac{5}{3}	126
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TABLE IX.—CLASSIFICATION AND PERCENTAGE, 1901.—Concluded.

11	Bristol County.			5.43			:	:	.83	.49	:	:	1.67
N.	Kent County.			66.5			.50		99.	:	.17	:	2.49
OIVISIO	Newport County Towns.	-		4.35			:	:		3	:		3.10
SACIL I	Zewport City.			6.73			i	:	:	:	.56	i	1.55
PERCENTAGE OF DEATHS IN EACH DIVISION.	Providence County Towns.			3.01			.16	80.	.16	80.	.46	80.	1.54
DEAT	Central Falls.			1.00			89	:	:	:	88.	85	1.67
GE OF	Pawtucket.	-		3.15			.30	- <u>:</u>	.15	.15	.15	• !	1.65
CENTA	Providence City.		-	2.21			.03	12	£.	.03	60.	90.	2.41
PE	Woonsocket.			88.			4.	:	:	18.	<u>5</u> .	:	1.46
	Washington County.			5.58				:		.95	:	-	1.78
tate.	Percentage in Whole S			9.91			7	. 90.	.16	60.	.19	.05	2.02
	CAUSES OF DEATH.	XII.	OLD AGE.	Scnile Debility	. XIII.	AFFECTIONS PRODUCED BY EXTERNAL CAUSES,	Suicide by Poison	Suiclde by Asphyxia	Suicide by Hanging	Suicide by Drowning	Suicide by Firearms	Suicide by Cutting Instruments	Other Accidental Traumatisms
	Bertillon Numbers.			154			155	156	157	158	159	160	991
	Whole State.			234			Ξ	5	13	ì-	15	4	163
NO	Washington County.			35			:	÷	:	-	:	:	Ł-
Division	Woonsocket.			6			C5	:	:	=	CS.	:	<u> </u>
	Providence City.			92			-	4	4		ರಾ	C.S.	88
EAC ATE.	Рачтискет.			25			35	i		_		:	=======================================
E ST.	Central Falls.			ಕಾ			-	:		<u>:</u>		_	
DEATHS IN EA	Providence County Towns.			8			C5		C₹		9	_	- S
OF L	Newport City.			36			<u>:</u>	:	:				5.
NUMBER OF DEATHS IN EACH OF THE STATE.	Newport County Towns.						· ·		:		:	:	
NUM	Kent County.			3 18				:	es 2	:		<u>:</u>	4 15
]	Bristol County.			13			:				٠		

8 .	<u>4</u> .		1.67	.42	:	:	55.	
29.			99.	.17		80.	.50	
	94.	89.	1.28 1.04 1.24	91.	:			
<u>7</u>			1.04					
							02.	
288.	09	.12	.45			.17	-15	
.45		i			:	:		
.56	.73		4.	9.5.			.55	
.63			.42	65		60.	.48	
.45	.46		2.03	33.		:		
		.18	?	.41	80.		.53	
							INED.	
Burns and Scalds	Insolation	Freezing (exposure to cold)	Accidental Submersion	Absorption of Deleterious Gases	Other Acute Poisonings	Homielde	XIV. Unspecified and lli-defined. Cause unstated.	
167 Burns and Soalds	691	170 Freezing (exposure to cold)	172 Accidental Submersion	174 Absorption of Deleterious Gases	175 Other Acute Poisonings	175a Homielde,	611	
	87 169	14	57 172	33 174 Absorption of Deleterious Gases	6 176 Other Acute Poisonings	ì-	43, 179	
	87 169	1 14	8 57 172		1 6	ì-	2 42 179	
8 36	1 87 169	1 14	2 8 57 172	1 1 33	1 6	ì-	65 65 67 67 67	
	87 169	4 1 14	14 2 8 57 172		4 1 6	2	19 2 42 179	
19 8 36	4 25 1 87 169	4 1 14	8 14 2 8 57 172	1 26 1 1 33	4 1 6	2	9 19 2 42 179	
19 8 36	1 87 169	1 14	14 2 8 57 172	1 1 33	1 6	ì-	19 2 42 179	
19 8 36	4 25 1 87 169	4 1 14	8 14 2 8 57 172	1 26 1 1 33	4 1 6	2	3 19 2 42 179	

8

CLASSIFICATION AND PERCENTAGE.

Table X.—Bertillon.

CAUSES OF DEATH.	1853.	1854.	1855.	1856.	1857.	1858.	1859.
I.							
GENERAL DISBASES	592	902	748	836	935	1,115	926
						,	
II. DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL							
SENSE	130	161	182	185	221	223	217
III.							
DISEASES OF THE CIRCULATORY APPARATUS	29	40	66	44	71	72	65
IV.							
DISEASES OF THE RESPIRATORY APPARATUS	94	116	151	213	234	267	219
V.							
DISEASES OF THE DIGESTIVE APPARATUS	79	137	205	178	194	238	203
VI.							
DISEASES OF THE GENITO-URINARY APPARATUS AND ITS ADNEXA	10	8	13	12	25	21	20
VII.							
PUERPERAL STATE	12	9	15	24	21	31	25
VIII.							
DISEASES OF THE SKIN AND CELLULAR TISSUE	7	5	12	12	17	12	6
IX. DISEASES OF THE ORGANS OF LOCOMOTION	3	1	2	7	6	6	9
	0	,	~	٠,	ľ		, ,
X.				_			
MALFORMATIONS,	3	7	11	5	12	14	14
XI.							
EARLY INFANCY	10	34	63	33	52	62	56
XII.							
OLD AGE	58	67	84	76	119	114	117
XIII.							
Affections Produced by External Causes	63	56	74	61	82	87	89
xıv.							
ILL-DEFINED DISEASES	160	185	220	356	336	354	304
				1			
TOTAL NUMBER OF DEATHS	1 050	1 700	1 946	9 040	9 205	9 818	2 270
TOTAL NUMBER OF DEATRS	1,200	1,120	1,040	2,042	~,020	2,010	~,~10
the second transfer to the second transfer transfer to the second transfer t							

Table X.—Bertillon.—Continued.

1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1878.	1874	1875.	1876.	1877.	1878.
,067	1,255	1,042	1,467	1,480	1,655	1,259	1,101	1,065	1,433	1,278	1,199	1,404	1,635	1,635	1,482	1,504	1,874	1,888
245	287	281	282	296	286	291	320	277	320	342	379	446	512	484	454	444	471	499
76	112	115	108	128	99	117	116	117	130	128	148	190	198	220	192	178	192	178
272	282	251	314	841	302	292	264	265	280	288	341	379	390	414	591	580	417	593
336	287	285	277	351	316	275	285	292	301	383	347	628	508	505	549	476	513	395
22	28	24	34	23	24	24	43	37	40	41	52	75	80	83	75	66	93	89
22	26	27	35	37	31	31	34	34	37	44	52	45	46	60	53	48	46	43
21	29	16	17	18	21	21	29	21	14	19	28	24	30	29	29	35	23	30
5	15	8	9	7	5	5	6	12	11	15	5	11	18	15	16	27	15	10
15	13	11	13	8	10	12	17	16	15	14	15	17	15	17	15	11	26	32
78	85	76	81	74	93	77	90	70	58	91	73	131	219	196	155	97	94	88
116	182	143	161	193	152	178	188	206	217	204	232	233	254	223	216	241	218	922
135	108	107	125	116	103	132	122	115	122	139	125	145	156	150	171	158	162	159
281	268	255	289	288	308	258	274	385	404	257	348	518	347	248	319	311	311	297

Table X.—Bertillon.—Continued.

CAUSES OF DEATH.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
I.							
GENERAL DISEASES	1,830	1,879	1,829	1,729	1,809	1,800	1,851
II.					•		
DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE	534	571	609	630	660	671	658
III.							
DISEASES OF THE CIRCULATORY APPARATUS	209	243	274	256	336	294	361
IV.				•			
DISEASES OF THE RESPIRATORY APPARATUS	514	574	565	558	648	597	764
V. DISEASES OF THE DIGESTIVE APPARATUS	381	487	508	672	608	690	613
VI.							
DISEASES OF THE GENITO-URINARY APPARATUS AND ITS , ADNEXA	98	111	97	111	184	167	208
VII.							
Puerperal State	45	51	60	50	60	51	47
VIII.							
DISEASES OF THE SKIN AND CELLULAR TISSUE	32	18	39	24	32	46	45
IX.							
DISEASES OF THE ORGANS OF LOCOMOTION	20	15	11	25	26	32	34
X. Malformations	19	13	26	21	19	22	1!
XI.	0.1	101	100	134	184	154	16'
EARLY INFANCY	91	121	120	194	104	194	10
XII.							
OLD AGE	220	273	247	283	275	293	26'
XIII.							
Affections Produced by External Causes	127	157	182	215	185	221	20
XIV.							
ILL-DEFINED DISEASES	852	316	449	366	256	103	16
TOTAL NUMBER OF DEATHS	4,472	4,829	5,016	5,074	5,282	5,141	5,38

TABLE X.—Bertillon.—Continued.

1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1807.	1898.	1899.	1900.	1901.	TOTAL A CENT FOR 45 1853-	YEARS,
,056	2,301	2,288	2,097	2,420	2,153	2,373	2,280	2,166	2,237	2,093	2,035	1,820	2,117	2,578	2,118	72,003	36.10
737	803	827	706	789	763	846	883	924	941	891	935	902	857	928	910	22,509	11.8
336	414	449	474	419	489	510	540	481	538	560	571	554	656	715	720	10,858	5.4
786	833	869	885	991	945	1,120	1,214	1,028	1,068	1,040	929	825	990	1,343	1,058	23,958	12.0
790	804	880	871	1,020	976	1,126	1,156	1,035	1,098	1,191	1,038	1,234	1,243	1,423	1,365	24,487	12.30
210	212	241	250	281	289	303	357	391	434	484	461	542	564	593	591	5,951	2.9
41	54	51	44	45	35	77	57	72	55	54	60	71	55	99	95	1,897	.98
30	38	45	36	48	31	35	25	43	20	38	20	3 5	12	25	28	1,168	.59
26	23	15	18	25	20	17	14	19	23	22	18	12	18	9	7	652	.8
15	18	20	19	25	28	16	24	23	32	32	30	35	46	47	57	775	.39
194	245	281	250	266	326	282	277	439	417	418	412	283	315	333	333	7,009	3.5
276	278	290	227	198	185	256	183	187	282	293	253	205	228	268	234	9,125	4.58
213	224	216	243	271	273	831	287	288	330	336	315	354	331	429	408	7,673	3.8
139	93	122	139	136	107	104	143	64	60	52	33	33	26	33	42	11,070	5.56

Table X.—Bertillon.—Continued.

Bertillon Numbers.	CAUSES OF DEATH.	1853.	1854.	1855.	1856.	1857.	1858.	1859.
1 4 5 6 7 7 8 9 9 2 1 2 2 2 2 6 7 7 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	I. GENERAL DISEASES. Typhoid Fever Intermittent Fever and Malarial Cachexia Variola. Measles. Scarlatina. Whooping Cough. Diphtheria and Croup. Diphtheria and Croup. Diphtheria. Grippe (Influenza). Cholera Nostras. Dysentery. Yellow Fever Erysipelas. Other Epidemic Affections. Purulent Infection and Septicæmia. Glanders and Farey. Malignant Pustule and Charbon (Anthrax). Rabies. Tubercle of Larynx Tubercle of Lurys. Tubercle of Meninges. Tubercle, Abdominal Pott's Disease. Abscess, Cold and by Congestion. Tubercle of Other Orgaus. Tubercle of Other Orgaus. Tubercle of Generalized. Scrofula. Syphilis. Blennorrhagia of the Adult. Cancer and other Malignant Tumors of Stomach and Liver Cancer, etc., of the Peritoneum, Intestines, and Rectum. Cancer, etc., of the Genital Organs of bremale. Cancer and other Malignant Tumors of Breast. Cancer and other Malignant Tumors of Organs not specified Other Tumors (Tumors of Female Genital Organs excepted) Rheumatism, Acute, Articular. Rheumatism, Chronic, and Gout Scorbutus. Diabetes. Goitre, Exopthalmic Addison's Disease. Leukæmia. Anæmia and Chlorosis. Other General Diseases Alocholism, Acute and Chronic. Saturnism. Other Chronic Poisonings.	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	11766 155 1188 8 8 349 40 11 55 11 11 11 11 11 11 11 11 11 11 11 1	44 77 71 15 15 588 1 1 5 1 15 1 15 1 15 1	2088 19		3 6 22 4 3 12 55 21	700 1 1 5 3 7 1 1 4 6 6 5 3 3 6 6 1 4 3 6 5 5 3 8 5 5 4 3 4 3 4 3 2 2 4 3 2 2 2 2 2 2 2 2 2 2
60 61 62 63 64 65 66 67 71 72 73 74 b 75	II. DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE. Encephalitis. Meningitis, Simple Meningitis, Epidemic Cerebro-Spinal. Locomotor Ataxia, Progressive Other Diseases of the Spinal Cord. Cerebral Congestion and Hemorrhage. Cerebral Softening Paralysis, without specified cause. Paralysis, without specified cause. Paralysis, General. Other forms of Mental Alienation Epilepsy. Convulsions of Children Tetanus. Chorea Neuralgia. Other Diseases of the Nervous System	28 22 12 4 4 29	19 6 6 68 3	26	39 9 14 6 6 64 4	42 21 16 8 57 6 1	42 43 21 14 9 57 1 	20 51 28 28 41

TABLE X.—Bertillon.—Continued.

1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
67 1 9 8 64 46	94 3 5 11 57 45	84 6 12 47 15	128 6 36 91 24	116 1 10 26 266 31	233 1 22 16 255 56	152 2 2 15 28 28	126 1 12 14 12	86 1 2 20 98 26	106 3 3 19 286 48	157 2 6 26 75 39	130 1 12 6 66 25	190 1 25 24 54 54 27	172 1 28 63 287 32	121 8 7 462 45	150 4 2 185 31	123 1 4 80 48	123 1 4 11 62 32	136 1 81 86 5-
67 2	140 3	81 3 	155 6 9	160 5	82 1	64 1 47 25	31 1 3 8	20 2 10	33	33	57	48 1 18	45 1 	59 2 8	38 6 8	159	492 1	433
26 1	96	52 11 1	262 14 1 	28 2	21	148	25	25	74 14 1	21	18	23	36	38 3 	21	50 18 	52 21 2 1 2 2	40
505 52 1 9	523 63 3 	513 50 8 	512 47 13 2	498 49 3 14 5	547 63 7 6 12 2	526 56 2 4 5	563 41 2 10 9	517 57 2 9 3	555 76 10 18 11	577 51 4 16 19	535 71 5 24 22 6	600 44 5 23 9	584 52 7 18 20	536 51 3 21 20 7	657 57 4 8 21 8	660 68 5 18 18	665 55 10 25 11 10	680 70 6
11 1 3 5 1 23	12 3 14 4 1 24	61	62	61	55	7 9 8	8 11 5	5 12 7	10 6 4	11 8 7	15 6 	11 10 16	21 12 8	17 12 6	12 12 11 14 58	18 13 11	25 19 21	15 18 11
16	8	4	7	6	8	10	7 1	11 11 11 	17	17 8	13 5 6	21	17 8 3	22	26	14	24	16
5 52 26 	8 62 30	4 47 22	12 40 82	4 42 27	3 47 10	3 42 7	2 41 10 	4 41 10	52 18	56 17	6 58 17	4 69 23	3 84 14	2 79 22	4 90 17	3 78 21	1 89 12	2 64 15
41	43	36	54	49	 5	46	52	40	54	42	44	57	65 44 62	23 37 16	28 88 13	76 4 7	78 3 8	78 3 11
51 32 11	57 40	36	62 31	54 42 15	55 45 20	56 36	72 52	57 54 13	69 48	64 66	77 79	58 67 26	67 67	70 86	67 99 32	95 70 19	109 72	102 86
70 5 	70 5 	6 55 6 42	6 71 8 	3 73 4 54	73 6 	4 83 3 52	12 68 8	5 63 3 1	5 79 2 	4 85 5 	10 83 5 51	13 116 8 	15 97 2 	16 98 8 67	20 100 5	12 89 2 	19 83 5 1	8 112 8

Bertillon Numbers.	CAUSES OF DEATH.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
ğž			-	-	7	-	. "	_
	I. General Diseases.							
1 4	Typhoid Fever	101 2	141 3	117 10	214 8	239 21	128 29	105 34
5 6 7	Variola Measles Searlating	311	9 468	37 138	2 6 45	2 14 34	18 97	45 91
8 9 9 2	Whooping Cough. Diphtheria and Croup. Diphtheria	43 259	20 152	216	71	9 95	43 	42 99
10 12 13	Grippe (Influenza) Cholera, Asiatic Cholera Nostras	48	11	3 	1 1 23		2	24
14 16	Dysentery	44	28 1	42	68	54	40	36
18 19 20	Erysipelas	1 0		37 1	30	28 3 3	25 	36
21 22 23	Malignant Pustule and Charbon (Anthrax)			i 	i	• • • • •	3 	i
26 27 28	Tubercle of Larynx Tubercle of Lungs Tubercle of Meninges	645 57	652 46	712 56	744 49	766 54	739 56	783 47
29 30 31	Tubercle, Abdominal Pott's Disease. Absees Cold and by Congestion	3		8	4		15	
33 34 35	Muhanda Canaralizad	36 13	12 12	39 15	27 14	29 22	36 20	43 18
36 37 39	Syphilis. Blennorrhagia of the Adult. Cancer and other Malignant Tumors of the Buccal Cavity	10	10	4 2	16	18 2	14	7
40 41	Cancer and other Malignant Tumors of Stomach and Liver Cancer, etc., of the Peritoneum, Intestines, and Rectum	24	18	27	20	41 12	22	53 1 26
42 43 44	Cancer, etc., of the Genital Organs of the Female	21 10	21 8	22 16	13	28 21 4		24 3
45 46 47	Cancer and other Malignant Tumors of organs not specified Other Tumors (Tumors of Female Genital Organs excepted) Rheumatism, Acute, Articular Rheumatism, Chronic, and Gout	70	78	80	85	61 23	94	86
48 49 50	Scorbutus	15	24 15	29	21 18	4 15	35 25	34 21
51 52 58	Goitre, Exopthalmie Addison's Disease. Leukæmia.							
54 55 56	Anæmia and Chlorosis Other General Diseases Alcoholism, Acute and Chronic.	8 79 15	8	4	4 107	7 140 29	7 133 30	6 144 22
57 59	Saturnism. Other Chronic Poisonings.]		
	11.			}				
	DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE.	***		400	00	00	00	01
60 61 61 2	Encephalitis. Meningitis, Simple Meningitis, Epidemic Cerebro-Spinal	73 6 10	85 3 20	100 7 18	87 8 28	83 8 26	68 10 21	81 13 16
62 63 64	Locomotor Ataxia, Progressive. Other Diseases of the Spinal Cord. Cerebral Congestion and Hemorrhage.	137	119	146	154	157	182	185
65 66 67	Cerebral Softening Paralysis, without specified cause Paralysis, General Other forms of Mental Alienation	83	96	101	iii	118	116	104
68 69 71	Other forms of Mental Alienation. Epilepsy. Convulsions of Children.	17 13 104	19 14 133	32 13 102	23 14 110	29 18 126	36 11 139	35 23 111
72 73 74a	Tetanus	6	3		8	8	5	4
74b	Other Diseases of the Nervous System. Diseases of the Eye and Appendages	85						8 6
76	Diseases of the Ear	••••	• • • •	••••			••••	• • • •

1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	TOTAL A CENT FOR 45 1853-	AGE YEARS,
121 43 48 86 49 17 66 17 66 17 66 17 66 17 66 10 10 11 1	1166 855	2244 711 207 444 30 77 24 21 11 11 21 24 30 31 21 21 21 33 32 33 32 33 32 33 32 33 33 32 34 34 35 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	1355 400	107 422 11 1 922 11 168 36 87 3852 7 11 1 1 36 100 115 50 39 6 6 277 19 271 255	149 311 122 33 77 102 177 1177 266 61 12 11 12 52 18 8 8 3 5 50 13 32 88 18 22 61 26 20 2544 299	1333 366 44 288 336 677 255 33 6 255 263 3 6 263 3 86 6 263 3 6 5 50 15 50 5 50 5 50 15 50 .	129 100 100 100 100 100 100 100 100 100 10	160 300 22 9 9 1233 1259	125 29 29 340 115	1133 422	666 444 333 29 56 2 231 153 144 1 1 2 777 77 77 77 78 36 20 38 10 36 20 38 48 2 2 44 4 39 9 1	766 311 966 923 753 753 754 388 114 388 1156 1100 1197 129 43 39 1100 119 1100 119 1100 1100 1100 11	900 300 300 300 866 4 866 219 313 4 35 823 823 834 831 55 823 411 177 170 193 411 422 447 447 142 447 151 93 341 161 171 171 171 171 171 171 171 171 17	127 21 1 1 185 34 86 8 68 112 255 188 850 825 6 6 1 1 27 27 27 27 21 121 27 52 411 211 21 22 2 2 2 3 30 13 30 13 30 14 4 1 1 500 2 2 2 2 3 3 62 2 2 3	103 23 5 5 15 5 16 4 113 146 6 10 10 10 10 10 10 10 10 10 10 10 10 10	5,485 642 213 1,208 1,742 1,337 705 3,098 31 153 22 2 33 33 27,567 2,511 306 13 32 2,511 306 13 34 20 51 31 32 32 32 32 33 32 33 32 32 32 33 33 34 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	2.77 .33 .11 .66 .2.99 .88 .66 .11 .33 .10 .00 .00 .00 .00 .00 .00 .00 .00 .00
111 983 10 230 107 49 14 121 8 2 92	5 107 24 206 122 64 17 159 7 1	14 119 22 211 156 43 16 154 9 2	10 99 9 210 113 22 19 136 7 1	51 121 17 242 99 30 23 156 4 46	62 116 16 219 116 21 27 137 8 1	37 130 18 238 124 25 162 6 	17 120 40 276 131 39 12 151 8 4 88	5 140 13 289 156 49 19 147 6 1	2 145 11 417 13 20 120 120 12 1 1 120 3 5	165 22 404 53 21 102 4 106	166 19 455 14 103 17 65 2 1 1 87	187 67 402 14 82 14 49 1 84	155 42 445 12 66 25 85 1	191 34 720 473 22 31 16 54 23 43 43 2 1	3 192 27 13 30 415 14 102 33 24 41	1,915 1,705 533 6,017 3,120 11,148 557 4,381 281 281 2,850 5	3.05 3.05 1.55 2.20 11.00 1.43

Bertillon Numbers.	CAUSES OF DEATH.	1853.	1854.	1855.	1856.	1857.	1858.	1859.
	III.							
	DISEASES OF THE CIRCULATORY APPARATUS.							
77 78 79 80 81 82 83 84 85	Pericarditis. Endocarditis, Acute Organic Diseases of the Heart. Angina Pectoris. Affections of the Arteries (Atheroma, Aneurism, etc.). Embolus and Thrombosis. Affections of the Veins (Varices. Hemorrhoids, Phlebitis). Affections of the Lymphatic System (Lymphangitis, etc.). Hemorrhages.	28	38	61 2 1	1 	2 63 2 4	66	61
	IV.							
	Diseases of the Respiratory System.							
88 89 90 91 93 94 95 96 97 98 99	Affections of the Larynx Affections of the Thyroid Body Bronchitis Bronchitis, Chronic Pneumonia Pleurisy Pulmonary Congestion and Apoplexy Gangrene of Lung Astima. Pulmonary Emphysema Other Diseases of the Respiratory Apparatus.	2 48 7	54 10	79 12	120 13	7 141 10	13 166 12	121
	v.							
	Diseases of the Digestive Apparatus.							
100 101 102 103 104 105a 105a 107 108 109 109a 110 112 113 114 115 116 117	Diarrhœa and Enteritis (two years and over). Parasites, Intestinal Hernias and Intestinal Obstructions. Other Affections of the Intestines Diseases of the Anus and Fecal Fistulas Icterus Gravis. Cirrhosis of the Liver Biliary Calculi. Other Affections of the Liver. Affections of the Spleen. Peritonitis, Simple (Puerperal excepted). Other Affections of the Digestive Apparatus (Cancer and Tubercle excepted). Appendicitis and Abscess of the Iliac Fossa.	5 39 16 14 	8 68 35 1 2 4 8 2 2	7 91 64 1 2 4 8	19 77 47 	16 70 65 1 4	99 93 65 1 54 1 35	7
	VI.							
	DISEASES OF THE GENITO-URINARY APPARATUS AND ITS ADNEXA.							
119 120 121 122 123 124 125 126 129 130 131	Nephritis, Acute Bright's Disease. Other Diseases of the Kidneys and their Adnexa. Calculi of the Urinary Tract. Diseases of the Bladder. Diseases of the Urethra, Urinary Abscess, etc Diseases of the Prostate. Non-Venereal Diseases of the Male Genital Organs. Tumor, Uterine, Non-Cancerous. Other Diseases of the Uterus. Cysts and other Tumors of the Ovary. Other Diseases of the Female Genital Organs.	3	1 1 	3	2	8	2	

TABLE X.—Bertillon.—Continued.

1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
3 66 1 1 	103 1 2	2 2	98 1	123 1 4	98	116	114 114	116	128	117 3 	144	189	189	214			182 4 1	
65 162 20 3	60 18 163 21 8 	77 7 147 17	98 17 174 14 8	201 16	95 10 175 16 3 	54 17 193 20 4 	51 19 16 4 	32 22 191 13 5	45 20 190 3 	55 28 182 12 8	24 218 18 4	68 26 12 4 40	72 29 234 14 7	68 40 250 10 	100 58 400 10 10	104 57 339 9	97 73 5 8	80 317 8
3 20 151 151 64 3 8 13 147	35	12 106 90 2 4 2 	20 114 79 4 7 3 36 1 5	15 133 120 1 3 1 44 	1 8 145 96 3 6 4 27 13	6 114 75 3 2 1 50	17 129 61 1 8 	14 157 61 2 6 2 	11 162 64 5 8 	55 2 7 4 45	14 179 76 71 	29 393 113 1 3 27	5 	2 41 2777 900 26 400 1 20	41 333 79 2 1 12	23 261 98 1 7 5	3 29 252 136 5 1 52 2	27 178 178 2 10 4 47 1 22
1 16 1 2 	15 3 1 1	5	222 4 5 5	4	14 2 2 2	 8 8 2 5	177 155 83 77	16 8 3 5 	18 14 8 4	15 16 1 6 	24 19 4 3	5 8	39 27 2 5 5	42 24 4 10	40 25 2 4 3	38 12 1 9	46 21 9 11 2	54 27 1 2 4

	1							=
Bertillon Numbers.	CAUSES OF DEATH.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
	ин.							
	DISEASES OF THE CIRCULATORY APPARATUS.							
77 78 79 80 81 82 83 84 85	Pericarditis. Endocarditis, Acute Organic Diseases of the Heart Angina Pectoris. Affections of the Arteries (Atheroma, Aneurism, etc.) Embolus and Thrombosis. Affections of the Veins (Varices, Hemorrhoids, Phlebitis). Affections of the Lymphatic System (Lymphangitis, etc.). Hemorrhages.	ലവവ	231		2 5	 8	290	339 5 4
	IV.							
	DISEASES OF THE RESPIRATORY SYSTEM.							
88 89 90 91 93 94 95 96 97 98	Affections of the Larynx Affections of the Thyroid Body Bronchitis. Brouchitis, Chronic Pneumonia Pleurisy Pulmonary Congestion and Apoplexy. Gangrene of Lung. Asthma Pulmonary Emphysema Other Diseases of the Respiratory Apparatus.	13	74 94 364 17 11	107 86 .327 9 16	84 101 344 8 9	76 29 82 400 13 13 1	91 81 37 363 5	103 113 55 465 7
	v.							
	DISEASES OF THE DIGESTIVE APPARATUS.							
100 101 102 103 104 105 105 106 107 108 109 109 110 112 113 114 115 116 117	Affections of the Nouth and its Adnexa Affections of the Pharynx. Affections of the Csophagus. Ulcer of the Stomach. Other Affections of the Stomach (Cancer excepted). Diarrhœa and Enteritis (under two years). Diarrhœa and Enteritis, Chronic. Diarrhœa and Enteritis, Chronic. Parasites. Intestinal. Hernias and Intestinal Obstructions. Other Affections of the Intestines. Diseases of the Anus and Fecal Fistulas Licterus Gravis. Cirrhosis of the Liver Biliary Calculi Other Affections of the Liver Affections of the Spleen. Peritonitis, Simple (Puerperal excepted). Other Affections of the Digestive Apparatus (Cancer and Tubercle excepted). Appendicitis and Abscess of the Iliac Fossa.	30 175 73 1 14 2 52 	28 255 95 58 9	1 2 39 254 107 1 15 6 1 45 27 10	44	2 511 2677 1555 211 40	2 1 43 367 16 7 55 2 40 8	51 308 115 14 10 5 1 56 35
	VI.							
	DISEASES OF THE GENITO-URINARY APPARATUS AND ITS ADNEXA.							
119 120 121 122 123 124 125 126 129 130 131 132	Nephritis, Acute Bright's Disease. Other Diseases of the Kidneys and their Adnexa. Calculi of the Urinary Tract. Diseases of the Bladder. Diseases of the Bladder. Diseases of the Prostate. Non-Venereal Diseases of the Male Genital Organs Tumor, Uterine, Non-Cancerous Other Diseases of the Uterus. Cysts and other Tumors of the Ovary Other Diseases of the Female Genital Organs.	61 20 1 12 4	56 35 9 4	54 25 1 11 2 1	44 44 14 3	93 38 1 19 7 20 6	90 39 17 3 4 2 12	143 25 1 20 1 4 4 2 8

TABLE X.—Bertillon.—Continued.

1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	TOTAL A CENT FOR 45 1853-	AGE TRARS,
21 297 9 2 3 1	29 358 11 5 5 3	23 400 9 6 4	29 413 11 7 5 2	27 362 8 8 7 1	33 429 7 5 9 2	19 3 16 3 2 1	8 9 485 12 4 12 4 1 15	10 27 411 15 4 7	8 43 449 24 7 2 2	12 58 458 19 6 	13 47 466 29 4 9 2	8 37 479 24 2 1	14 72 512 28 5 20 2	8 109 512 33 13 26 3	17 107 531 30 10 13 3 2 7	272 184 9,857 181 120 84 34 3 123	.14 .09 4.95 .09 .06 .04 .02 .00
99 143 31 481 12 13 2 5	121 153 23 488 15 20	96 201 27 508 18 	86 214 46 483 23 13 3 17	88 234 41 569 18 21 2	70 213 34 568 26 24 4	101 257 51 655 34 11 1	57 263 52 776 22 	201 53 665 24 18 3 20	39 239 35 685 38 22 2	237 39 669 32 18 3	32 181 45 635 18 15 2	12 195 41 542 19 11 1	23 194 47 686 14 20 1 5	31 248 47 966 21 20 7	37 1 161 71 742 24 2 1 12 4 3	3,310 3,720 651 14,652 704 423 31 467	1.66 1.87 .33 7.36 .35 .21 .02
2 1 59 421 135 16 11 1 1 55 1 59	1 8 68 369 164 17 2 67 1 666 15	4 61 507 131 14 100 1 1 2 47 1 60 22	2 2 5 75 470 124 8 1 1 27 2 5 2 63 30	73 613 1127 1 18 15 1 1 28 4 4 48 	2 2 5 136 131 2 4 48 68 18	5 67 655 182 24 20 28 3 58 62	64 650 148 1 26 74 1 1 40 4 4 52	11 2 62 614 147 19 466 1 157 1 81 177 .	 	67 659 123 45 45 23 77 29	81 539 114 22 76 2 5 16 12 104 25	93 579 119 41 100 50 11 111	79 606 606 140 11 19 217 28	2 4 4 1 1 15 5 5 9 4 5 5 2 2 3 8 3 4 5 3 4 5	4 2 1 1 12 2 79 633 11 121 66 60 4 4 34 1 20 261 42	129 65	.07 .08 .79 6.47 2.25 .22 .32 .32 .01 .19 .02 .94 .01 .59
140 24 25 1 8	130 39 1 20 1 7	192 21 1 11 2 4 2 3 5	176 34 5 23 1 1 1 	213 17 2 39 2	229 18 2 14 3 8 1 6 8	220 41 5 1 1 7 6	258 44 4 27 1 3 5 6	266 47 5 31 10 	314 34 6 21 1 15 2 10 14 17	369 27 32 22 10 15 16	879 8 4 23 2 7 11 19 8	457 12 22 22 1 12 17 7	463 14 7 34 2 13 12 11 8	117 390 9 4 16 3 10 18 10 5	49 446 9 8 24 1 22 1 14 	3,826 963 91 496 18, 146 3 788 187 141	1.92 .48 .05 .25 .01 .07 .00 .04 .09

Bertillon Numbers.	CAUSES OF DEATH.	1853.	1854.	1855.	1856.	1857.	1858.	1859.
	VII.							
	THE PUERPERAL STATE.							
134 136 137 138 139 140	Accidents of Pregnancy. Other Accidents of Labor Septicæmia, Puerperal Albuminuria and Puerperal Eclampsia. Phlegmasia Alba Dolens, Puerperal Other Puerperal Accidents—Sudden Death.	~~7	2	6	i0	8		11
	VIII.							
	Diseases of the Skin and Cellular Tissue.							
142 143 144 145 d	Gangrene Furuncle (Carbuncle) Phlegmon : Warm Abseess. Other Diseases of the Skin and its Adnexa			7	4 1 4 3	8 3 6	8 1 2 1	1 1 1
	IX.							
	DISEASES OF THE ORGANS OF LOCOMOTION.							
146 147	Affections of the Bones (non-Tuberculous)	3	i	2	····;	6	₆	9
	X.							
	MALFORMATIONS.							
150	Malformations, Congenital (still-births excepted)	3	7	11	5	12	14	14
	XI.							
	EARLY INFANCY.							
151 152 153	Congenital Icterus, Debility, and Sclerema		13 21	34 29 	17 16	17 35	33 29	25 31
	XII.							
	OLD AGE.							
154	Senile Debility	58	67	84	76	119	114	117
	XIII.							
	Affections Produced by External Causes.							
155 156 157 158 159 160 161 163	Suicide by Poison Suicide by Asphyxia Suicide by Hanging or Strangulation Suicide by Submersion Suicide by Firearms Suicide by Cutting Instruments Suicide by Jumping from High Places Other Suicides.		 3	6	3	····· ····· 4	2 6 3 	2 3 1 1 1 2
164 166 167 169 170 171 172 174 175	Fractures. Other Accidental Traumatisms. Burns and Scalds. Insolation Freezing. Electrical Disturbances. Accidental Submersion Absorption of Deleterious Gases (Suicide excepted). Other Acute Poisonings. Other External Violence (Homicide).	31 9 	23 9 	19	16	40	38 6 24 	37 13 24 1 4
	XIV.							
	ILL-DEFINED DISEASES.							
177 179	Dropsy	45 115	34 151	32 188	50 306	48 288	44 310	41 268

TABLE X.—Bertillon.—Continued.

1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1578.
9	7	4 23	14	14	 13 18	 7 2 22	 8 7 19	 12 4 2 16	10 4 23	16 6 22	18 7 27	 0 4 	17 5 24	3 16 13 28	18 13 22	18 6	17 5	17 11 11 15
10 7 4	11 1 11 6	7 4 5		6 9 3	12 1 7 1	6 2 8 5	15	6 1 10 4	4 2 4 4	9	10 9 11 5	12 10 2	12 1 10 7	 18 6	12 1 9 7	11 1 18 5	8 3 7 5	10 13 7
	15	8	9		5	 5	6	12	11	15	5	11	18	15	16	27	15	 10
15	13	11	13	8	10	12	17	16	15	14	15	17	15	17	15	11	26	32
42 31	45 40 	35 41	47 34	46 28	62 31 	54 23	60 30	47 23	34 24	57 84	53 20	100 31	169 50	154 42	135 20	75 22	67 27	72 16
116	132	143	161	193	152	178	188	206	217	204	232	233	254	223	216	241	213	222
1 3 8 55 55 1 7 4	1 4 1 4 31 21 29 8 9	8 50 14	74 10	12 26 1	12 52 16 	69 18	15 61 16 	18 - 56 16 - 5	15 62 15 24	63 12	19 66 12	18 84 12 29	86 14 36 4 5 3	18 555 23 39 6 5 4	26 79 17 	18 69 12 87 9 4	22 76 18 	21 74 11 6 3
56 225	48 220	46 209	52 237	45 218	61 247	49 204	49 225	49 836	53 351	61 196	56 292	55 463	60 287	209 89	56 263	66 245	63 248	38 259

Bertillon Numbers.	CAUSES OF DEATH.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
	· VII.							
	THE PUERPERAL STATE.							
134 136 137 138 139 140	Accidents of Pregnancy Other Accidents of Labor. Septicæmia, Puerperal. Albuminuria and Puerperal Eclampsia. Phlegmasia Alba Dolens, Puerperal Other Puerperal Accidents—Sudden Death.	8	15 3	6	3	16 1 43	8	1
	VIII.							
	DISEASES OF THE SKIN AND CELLULAR TISSUE.							
142 143 144 145 d	Gangrene. Furnnele (Carbunele). Phlegmon: Warm Abscess. Other Diseases of the Skin and its Adnexa.	14 1 14 3	5	14 2 17 6	6 1 14 3	3	18	2
	IX.							
	Diseases of the Organs of Locomotion.							
146 147	Affections of the Bones (non-Tuberculous)	20	 15	11	 25	26	32	3
	X.							
	Malformations.							
15 0	Malformations, Congenital (still-births excepted)	19	13	26	21	19	22	1
	XI.							
	EARLY INFANCY.							
151 152 153	Congenital leterus, Debility and Sclerema. Other Diseases of Early Infancy. Lack of Care.	69 22	93 28	92 28	101 33	137 47	128 26	13: 3:
	XII.							
	OLD AGE.							
154	Senile Debility	220	273	247	283	275	293	26
	XIII.							
	Affections Produced by External Causes.							
155 156 157 158	Suicide by Poison Suicide by Asphyxia Suicide by Hanging or Strangulation				••••			••••
159 160 161	Suicide by Submersion Suicide by Firearms. Suicide by Cutting Instruments. Suicide by Jumping from High Places.							
163 164	Suicide by Cutting Instruments. Suicide by Jumping from High Places. Other Suicides. Fractures	13	10	23	31	25	22	20
166 167 169	Other Accidental Traumatisms Burns and Scalds. Insolation Freezing.	73 13	87 21	16	107	94 18	20	98
170 171 172 174 175 176	Electrical Disturbances Accidental Submersion Absorption of Deleterious Gases (Snicide excepted) Other Acute Poisonings. Other External Violence (Homicide).	22 5	33 5	29 19 9	40 8 6	27 12 6 3	41 11 7	4:
		1		1	J	Ĭ	~	
	XIV. ILL-DEFINED DISEASES.							
177	Dropsy	50	37	47	50	48	42 61	44

Table X.—Bertillon.—Concluded.

1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	TOTAL A CEST FOR 45 1853-	AGE YEARS,
2 10 6 23	25 7 20	2 18 6 25	17 6 1 19	3 19 4 	2 1 12 5 	6 4 30 8 	21 4 1 27	8 6 32 13 	7 5 24 12 	13 5 16 13 	12 3 19 20	13 8 34 14	7 6 26 13 3	21 2 49 23 1 3	8 22 42 21 2	61 27 - 659 227 5 915	.03 .01 .33 .12 .00
6 2 13 9	15 3 15 5	19 19 7	26 17 3	24 2 13 9	16 2 6 7	21 4 5 5	17 3 5	13 3 1 26	3 7 10	12 21 2 2	3 1 13 3	29 4	1 6 5	16 4 5	14 2 7 5	446 56 436 230	.92 .03 .92 .12
26	23	15	··is	25	20		14	19	23	22	18	12	18	7 2	6	653	.33
15	18	20	19	25	28	16	24	23	32	32	30	35	46	47	57	775	.39
157 37	211 34 	230 51	195 55	205 41	251 75	245 37	224 53	373 66	344 73	390 28	372 40	257 26	294	316 16 1	315 18	5,464 1,545	2.74 .78
276	278	290	227	198	185	256	183	187	282	293	253	205	228	268	231	9,125	4.58
17 23 58 10 6	16 122 17 6 1 1 39 14 7	3 7 2 2 27 95 27 1 1 46 8 12 5	2 2 8 3 4 126 20 2 2 5 2 9 5 3	4 1 1 1 3 2 129 20 6 1 1 71 122 10 2	9 2 5 5 13 3 124 18 5 152 17 15	3 2 1 2 2 1 8 187 21 17 48 26 9	5 1 4 2 4 4 4 160 26 2 1 47 14 13 3	8 6 15 8 3 118 28 8 1 52 21 6 9	6 2 3 3 11 4 163 28 4 2 2 61 22 11 6	6 10 8 12 25 47 25 47 26 39 24 12 2	9 4 6 6 6 11 4 1 1 3 1 40 22 8 12	14 4 9 8 8 8 2 1 156 21 23 4 2 60 19 10 13	5 6 10 6 7 6 1 1 28 28 2 3 3 2 45 31 6 15	13 1 13 9 10 8 1 185 33 13 2 64 53 14	11 5 13 7 15 4 163 36 37 14 57 33 6	63 311 78 42 64 423 3 5199 6 3.699 7811 100 15 14 1,521 313 264 137	.03 .02 .04 .02 .03 .01 .00 .26 .00 .00 .1.86 .39 .01 .01 .76 .16 .13
49 90	39 54	48 74	51 88	48 88	38 69	42 62	44 99	57	60	52	33	33	26		42	1,980 9,090	1.00 4.56

TABLE XI.—OCCUPATIONS AND AGES OF DECEDENTS.

Showing the Number and Occupation of Decedents for the year 1901, and for a period of Forty-nine Years and Seven Months, 1852 to 1901, inclusive.

[AGES UNDER TWENTY EXCLUDED.]

		C/D A	TE OF R	HODE	SLAND	
		1901.	TE OF R	FORT S	Y-NINE YEA EVEN MONT 852, to Decemb	нs,
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Aggregate Ages.	Average Age.
I.						
TILLERS OF THE SOIL.						
Farmers. Florists. Gardeners.	169 1 29	10,415 71 $1,833$	$61.63 \\ 71.00 \\ 63.21$	7,358 66 367	$493,630 \\ 3,654 \\ 21,843$	$67.09 \\ 55.36 \\ 59.52$
Total	199	12,319	61.90	7,791	519,127	66.63
II. Professional and Per-						
SONAL. Acrobats	$egin{array}{c} \dots & 1 \ \dots & 2 \ 3 \end{array}$	22 111 199	22.00 55.50 66.33	$1 \\ 16 \\ 1 \\ 19 \\ 44$	24 544 23 $1,066$ $2,328$	24.00 34.00 23.00 56.10 52.91
Assayers and Analytical Chemists. Athletes. Authors. Ball-players. Chiropodists Civil Engineers. Clergymen Couriers. Dancing-masters	1 8	75 491	75.00	8 1 9 2 1 54 288 2 3	506 25 626 65 58 2,673 18,429 113 173	63.25 25.00 69.56 32.50 58.00 49.50 63.99 56.50 57.67
Designers	$\begin{array}{c c} 6 \\ 1 \end{array}$		$51.00 \\ 85.00$	$\begin{array}{c} 56 \\ 25 \end{array}$	2,967 1,305	$\frac{52.98}{52.20}$

	STATE OF RHODE ISLAND.							
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS. June 1, 1852, to December 31, 1901.				
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Aggregate Ages	Average Age.		
Draughtsmen	1	46	46.00	16	551	34.44		
Electricians	10	312	31.20	28	1,001	35.75		
Inspectors	4	154	38.50	24	1,205	50.21		
Inventors				16	1,054	65.87		
Journalists (Editors and								
Reporters)	3	98	32.67	55	2,566	46.65		
Judges and Justices				18	1,156	64.22		
Lawyers	9	585	65.00	209	12,024	57.58		
Lecturers			'	2	108	54.00		
Musicians	1	22	22.00	86	4,057	47.17		
Nurses	1	28	28,00	19	1,022	53.79		
Photographers and Litho-								
graphers	2	65	32.50	32	1,493	46.65		
Physicians	13	752	57.85	361	21,497	59.55		
Professors and Teachers	5	319	63.80	156	7,879	50.50		
Public Officers	6	400	66.67	101	6,036	59.76		
Sculptors				1	41	41.00		
Sheriffs and Policemen	11	546	49.64	152	8,258	54.33		
Students	2	51	25.50	90	2,059	22.88		
Submarine Divers Telegraph and Telephone				1	73	73.00		
Operators	3	82	27.33	27	813	30.11		
Treasurers	5	303	60.60	12	641	53.42		
Trustees	1	56	56.00	1	56	56.00		
Veterinary Surgeons				9	470	52.22		
Weighers and Gaugers	• • • •			9	576	64.00		
Total	99	5,105	51.57	1,955	105,561	54.00		
III.								
OPTIONAL ACTIVITY.								
Agents and Canvassers	8	490	61.25	241	12,538	52.02		
Insurance	8	414	51.75	36	1,949	54.14		
Real Estate	3	193	64.33	23	1,473	64.04		
Auctioneers				6	274	45.67		
Bankers and Brokers	10	591	59.10	177	10,615	59.97		
Bank Officers	2	124	62.00	71	4,565	64.30		
Bartenders	2	80	40.00	56	2,012	35.93		

	STATE OF RHODE ISLAND.								
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1901.					
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Aggregate Ages.	Average Age.			
Booksellers Bottlers Butchers and Marketmen Carriage Dealers Coal and Wood Dry Goods. Fish and Oyster Furniture Grain. Hardware. Ice Junk Leather. Liquor. Lumber. News Provision Shoe Soap Wool Waste Clothiers. Collectors. Commercial Travelers. Contractors and Builders Druggists and Apothecaries. Fruiterers. Grocers. Hotel and Innkeepers. Saloon and Restaurant. Stable Store Mail Carriers. Manufacturers Merchants Opticians	10 3 3 2 4 8 1 4 7 6 11 1 26 2 7 4 11 15 35		56.56 60.00 43.91 57.00 59.19 52.50	9 507 185 214	213 360 17,144 113 965 207 1,852 442 299 499 368 1,079 81 6,485 1,004 422 1,305 757 65 56 959 380 1,559 8,273 9,239 433 27,586 10,213 9,827 4,433 3,695 530 42,948 83,239 338	71.00 36.00 51.79 56.50 51.52 51.75 59.74 63.14 59.80 62.37 52.57 56.79 40.50 46.65 55.55 52.75 54.07 65.00 56.41 47.50 45.85 59.95 69.46 48.11 54.92 54.73 53.55 54.77 61.09 57.85			
Organ and Piano Tuners Policy Brokers Pork and Meat Cutters and				6	$\begin{array}{c} 402 \\ 24 \end{array}$	67.00 24.00			
Packers Promoters	4	194	48.50	25 1	$1,\!132$ 25	$\frac{45.28}{25.00}$			

	STATE OF RHODE ISLAND.								
OCCUPATIONS.		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1891.					
	Total Mortality.	Argregate Ages.	Аустаде Аде.	Total Mortality.	Аригецие Арек.	Average Age.			
Railroad Officials. Ship Chandlers. Tobacconists. Traders. Undertakers.	2	86 103 48	43.00 51.50 48.00	8 5 17 283 58	465 318 977 14,259 3,317	58.13 63.60 57.47 50.39 57.02			
Total;	206	10,697	51.93	5,218	291,713	55.91			
IV. Outdoor.— <i>Local</i> .									
Boat-builders	90 26 3	5,378 1,539 254	84.67	$ \begin{array}{c} 32\\8\\14\\15\\2,421\\1,001\\40\\3\end{array} $	352 663 1,033 136,265 56,199 2,718 129	62.47 44.00 47.36 68.87 56.28 56.14 67.95 43.00			
Riggers. Roofers. Ship Carpenters. Slaters. Stone-cutters and Marble-workers.	1 14	$ \begin{array}{c} 25 \\ 72 \\ 849 \end{array} $	$ \begin{array}{c} 25.00 \\ 72.00 \\ \\ 60.64 \end{array} $	25 8 86 9 326	1,343 415 5,940 398 16,106	53.72 55.33 69.07 44.22 49.40			
Superintendents of Highways	 1 3	63 157	63.00 52.33	$\begin{bmatrix} 1 \\ 62 \\ 120 \end{bmatrix}$	79 3,959 7,218	79.00 63.85 60.15			
Total V.	139	8,337	59.98	4,171	234,816	56.30			
Indoor.—Active. Axe and Scythe-grinders Bakers	14	786	56.14	4 190	222 12,165	55.50 64.03			

	STATE OF RHODE ISLAND.								
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS. June 1, 1852. to December 31, 1901.					
OCCUPATIONS.	Total Mortality.	Акктекаtе Акез.	Average Age.	Total Mortality.	Aggregate Ages.	Average Age.			
Basket-makers				7	404	57.71			
Belt				13	760	58.46			
Bobbin	2	126	63.00	6	329	54.83			
Boiler	5	280°		88	3,748	42.59			
Bolt	2	117	58.50	3	158	52.67			
Broom and Brush				16	813	50.81			
Button				1	37	37.00			
Cabinet	5	342	68.40	149	8,761	58.79			
Card				4	201	50.25			
Carriage, and Trimmers.	1	73	73.00	79	4,405	55.76			
Chair				1	70	70,00			
Comb				5	187	37.40			
Mattress				1	38	38.00			
Pattern	4	276	69.00	89	5,291	59.44			
Pianoforte				3	157	52.33			
Picker				5	303	60.06			
Plane				1	79	79.00			
Pump and Block				14	788	55.71			
Reed				6	352	58.67			
Sash and Blind				10	502	50.20			
Scythe		••••		1	83	83.00			
Spindle				5	297	59.40			
Stopper				1	22	22.00			
Stove and Mounters				5	$2\overline{45}$	49.00			
Tool	5	$\frac{258}{258}$	51 60	45	2,376	52.80			
Trunk	0	200	01.00	3	89	29.67			
Umbrella			• • • • • •	2	103	51.50			
Wringer	3	80	26.67	$\overline{4}$	112	28.00			
Beamers		00	20.01	$\tilde{2}$	59	29.50			
Bell-hangers				$\tilde{2}$	47	23.50			
Blacksmiths and Farriers.	33	2,024	61.33	790	43,218	54.71			
Bleachers and Fullers	4	156	39.00	76	3,796	49.94			
Bonnet-dressers	-	100	00.00	2	73	36.50			
Brewers	1	61	61.00	$2\overline{4}$	1,175	48.96			
Britannia-workers			01.00	1	65	65.00			
				59	3,243	54.96			
Car-builders				1	57	57.00			
Stair				4	219	54.75			
Carders	1	55	55.00	16	861	46.62			
Card-grinders			30.00	3	138	46.00			
Carvers				3	147	49.00			

	STATE OF RHODE ISLAND.								
OCCUPATIONS.		1901.		FORTY-NINE YEARS AND SEVEN MONTHS. June 1, 1852, to December 31, 1991.					
occer arrows.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Аддгедате Адсе.	Аустаge Аge.			
Confectioners	3	136	45.33	52	2,424	46,62			
Cooks and Caterers		355	59.17	140	6,831	48.79			
Coopers			86.00	134	8,856	66.09			
Coppersmiths				16	969	60.50			
Cutters				8	394	49.25			
Nail				12	490	40.83			
Decorators				14	526	37.57			
Distillers				1	77	77.00			
Dyers	5		54.40	159	8,117	51.05			
Founders, Brass and Iron.	2	78	39.00	22	1,079	49.05			
Foundrymen	1	64	64.00	24	1,273	53.04			
Gasfitters		64		65	2,830	43.54			
Gilders				12	535	44.58			
Gun and Locksmiths	2	68	34.00	28	1,525	54.46			
<u>H</u> atters	1	73	73.00	27	1,473	54.56			
Heaters	!			6	240	40.00			
Iron Rollers and Workers.	2	97	48.50	21	1,006	47.90			
Japanners				1	47	47.00			
Lathers	1	54	54.00	8	350	43.75			
Loom-fixers	3	165	55.00	7	309	44.14			
Machinists	69	3,243	47.00	1,865	91,245	48.92			
Mechanics	9	485	53.89	517	27,374	52.95			
Melters				12	667	55.58			
Miners		074	40.50	18	1,018	56.55			
Moulders	20	974	48.70	388	21,101	54.36			
Painters and Glaziers	61	3,335	54.67	$1,\!103$ 25	54,159	$\frac{49.10}{52.50}$			
PaperhangersPlasterers and Stucco-		• • • • • •		2.0	1,314	02.00			
workers	4	175	43.75	63	3,031	48.11			
Platers	*	110	40.10	4	251	62.75			
Electro				6	389	64.83			
Gold				4	163	40.75			
Plumbers		79	39.50	$12\overline{5}$	4,890	39.12			
Pressmen			00.00	G	261	43.50			
Refiners				5	189	37.80			
Gold	1	26	26.00	4	179	44.75			
Oil				1	76	76.00			
Sugar		79	79.00	8	390	48.75			
Soap-boilers				5	353	70.60			
Steampipers	5	165	33.00	18,	686	38.11			
Stove Manufacturers				7	416	59.43			

	STATE OF RHODE ISLAND.								
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1901.					
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Ауетаge Аge.	Total Mortality.	Aggregate Ages.	Average Age.			
Superintendents and Overseers Tallow Chandlers Tinsmiths Upholsterers Wire-workers Wood-carvers Finishers Turners. Total	$ \begin{array}{c c} 26 \\ $	1,621 	62.35 50.75 51.00 41.00 53.60 53.17	$ \begin{array}{r} 423 \\ 4 \\ 156 \\ 64 \\ 16 \\ 4 \\ 7 \\ 60 \\ \hline 7,419 \end{array} $	23,720 322 7,549 2,673 685 149 383 2,622 381,801	56.08 80.50 48.39 41.77 42.88 37.25 54.71 43.70			
VI. Indoor.—Activity Restricted.			07.00	200	10.770	or 45			
Barbers Bookbinders Bookkeepers and Account-	17 1	$\frac{634}{26}$	$37.29 \\ 26.00$	298 28	10,570 1,304	$35.47 \\ 46.57$			
ants Box-makers Chain	18 1	1,015 59	56.39 59.00	470 24 5	21,447 $1,149$ 261	45.63 47.88 52.20			
Cigar Clock and Watch Harness and Saddle	3 4	$\begin{array}{c} 202 \\ \dots \\ 229 \end{array}$	$\begin{array}{c} 67.33 \\ \dots \\ 57.25 \end{array}$	113 44 142	5,254 2,460 7,200	46.49 55.91 50.70			
Paper	1		83.00	7 25 39	,	55.57 66.88 58.72			
Shoe	$\begin{array}{ c c }\hline 14\\2\\87\\\end{array}$	$905 \\ 109 \\ 3,260$	64.64 54.50 37.47	$\begin{array}{c c} 670 \\ 20 \\ 1,494 \\ 8 \end{array}$	38,879 $.775$ $56,488$ 382	58.03 38.75 37.81 47.75			
Die-cutters and Sinkers Enamelers Engravers	1 6		51.00 52.83	$ \begin{array}{c c} 24 \\ 9 \\ 154 \end{array} $	1,138 496 7,595	47.41 55.11 49.32			
File-cutters and Forgers Finishers Brass	8	351 64	43.88 64.00	106 23 7	4,352 1,149 314	41.06 49.96 44.86			
Folders				5	242	48.40			

TABLE XI.—OCCUPATIONS AND AGES.—Continued.

	STATE OF RHODE ISLAND.								
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 51, 1901.					
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Акктеките Акев	Average Age.			
Glass-blowers Jewelers Shell	53	2,385	45.00	$1,271 \\ 3 \\ 3$	57 53,765 182 82	57.00 42.30 60.67 27.33			
Knitters Lapidaries Millers Operatives	₂ 79	137 3,209	68.50 40.62	12 53 $2,840$	$ \begin{array}{r} 430 \\ 3,084 \\ 125,335 \end{array} $	35.83 58.19 44.13			
Pearl-cutters	6	288	48.00	48 1 2	$\begin{array}{c} 157 \\ 2,202 \\ 62 \\ 59 \end{array}$	39.25 45.88 62.00 29.50			
Steel	10	542	54.20	$\begin{array}{c} 1 \\ 224 \\ 1 \end{array}$	$12{,}730 \\ 70$	$\frac{42.00}{56.83}$ $\frac{70.00}{6}$			
Publishers	1 11 14	51 500 790	51.00 45.45 56.43	$\begin{array}{c} 2 \\ 34 \\ 209 \\ 147 \end{array}$	$105 \\ 1,947 \\ 8,830 \\ 6,719$	52.50 57.26 42.25 45.71			
Tailors	38 1	$^{409}_{1,856}$	68.17 48.84 27.00	471 38 71	$26,194 \\ 1,856 \\ 3,475$	55.61 48.84 48.94			
Total	385	17,499	45.45	9,151	413,159	45.15			
VII.		ļ							
Occupations at Large.									
Army Officers				$\begin{array}{c} 9 \\ 20 \end{array}$	530 966	$58.88 \\ 48.30$			
Bill-posters	$\frac{2}{1}$	91 46	45.50 46.00	34 1	162 1,888 46	54.00 55.53 46.00			
Brakemen	$\begin{array}{c} 3\\2\\10\end{array}$	$ \begin{array}{r} 77 \\ 64 \\ 482 \end{array} $	25.67 32.00 48.20	142 7 219	4,261 255 $9,753$	30.01 36.43 44.53			
Drivers	8 4 8	$ \begin{array}{r} 410 \\ 159 \\ 349 \end{array} $	51.25 39.75 43.63	70 53 64	2,891 1,975 2,810	41.30 37.26 43.91			

	STATE OF RHODE ISLAND.							
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1901.				
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Aggregate Ages.	Average Age.		
Drovers	$egin{array}{c} \dots \ 32 \ 4 \ 2 \end{array}$	1,632 177 137	51.00 44.25 68.50	$\begin{array}{c} 2\\ 3\\ 531\\ 113\\ 12 \end{array}$	83 127 26,495 5,745 592	41.50 42.33 49.90 50.84 49.33		
Fishermen and Oystermen	11 9	500 307	45.45 34.11	283 1 1 171	$15,224 \\ 24 \\ 61 \\ 7,332$	53.80 24.00 61.00 42.88		
Hostlers	12	717	 59.75	9 6 119	611 395 6,449	67.89 65.83 54.19 49.29		
LaborersLamplightersLaundrymenLinemen	2	108	54.00	$ \begin{array}{r} 11,581 \\ 21 \\ 25 \\ 14 \end{array} $	570,875 $1,152$ $1,083$ 629	54.86 43.32 44.93		
Longshoremen Lumbermen Mail-carriers Milkmen	$\begin{array}{c c} 4\\1\\2\\3\end{array}$	$\begin{array}{c c} 44 \\ 67 \\ 137 \end{array}$	$ \begin{array}{r} 33.50 \\ 45.67 \end{array} $	$\begin{array}{c c} 7 \\ 5 \\ 12 \\ 23 \end{array}$	313 266 555 854	44.71 53.20 46.25 37.13		
Peddlers	11		55.09	209 24 56 2	10,518 $1,336$ $2,611$ 126	50.32 55.67 46.62 63.00		
Sailors Scissors-grinders Sea-captains or Ship-masters	15 			$\begin{array}{c c} 333 \\ 1 \\ 208 \end{array}$	$16,164 \\ 72 \\ 14,835$	48.54 72.00 71.32		
Servants		32	32.00	30 13 3 158	1,322 813 163 $4,904$	44.07 62.54 54.33 31.04		
Stage-drivers				8 19 28 30	398 901 1,328	49.75 47.42 47.43 56.47		
Switchmen, Gatemen, etc Teamsters Theatrical Managers Waiters	37	1,822	49.24	765 3	1,694 35,831 137 5,543 11,994	46.84 45.67 40.46 57.39		

	STATE OF RHODE ISLAND.								
OCCUPATIONS.		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1991					
	Total Mortality.	Aggregate Ages.	Аустаде Аде.	Total Mortality.	Aggregate Ages.	Average Age.			
Whitewashers				8 5	$\frac{452}{239}$	56.50 47.80			
Total	669	31,458	47.02	15,810	775,783	49.07			
VIII.									
Employments of Women.									
Actresses				3	112	37.38			
Agents				$\frac{1}{6}$	$\frac{59}{321}$	59.00 53.50			
Basket-makers				$\frac{0}{2}$	149	74.50			
Box				5	150	30.00			
Broom and Brush				1	34	34.00			
Braid				1	66	66.00			
Cap				1	28	28.00			
Chain	1	25	25.00	5	177	35.40			
Cigar				8	243	30.37			
Dress, and Seamstresses. Boarding-house Keepers.	20	970		415	16,916	40.70			
Boarding-house Keepers	1	51	51.00	27	1,677	62.11			
Boatwomen		171	24 20	$\frac{1}{23}$	60 709	60.00 30.83			
BookkeepersCharwomen	a	171	34.20	25	60	60.00			
Clerks and Saleswomen	10	346	34.60	56	1,618	28.89			
Compositors	10		01.00	1	28	28.00			
Cooks	4	220	55.00	63	3,345	53.10			
Farming				2	124	62.00			
Hairdressers				2	55	27.50			
Jewelers		84	28.00	23	648	28.17			
Laboring				16	699	43.69			
Lace-knittersLaundresses				1	49	49.00			
Laundresses	2	105	52.50	53	2,641	49.83			
Matrons				2	102	51.00			
Midwives	$\frac{1}{2}$			$\frac{2}{65}$	$\frac{128}{2,346}$	64.00			
Milliners	2	84	42.00	1	2,346	36.09 38.00			
Musicians				4	$\frac{38}{125}$	31.00			
Nurses	11		49.63	139	7,991	57.49			
Oculists					59				

	STATE OF RHODE ISLAND.							
		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1901.				
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Aggregate Ages.	Average Age.		
Operatives Physicians Postmistresses Public Officers Rubber-workers Sculptors Servants Sisters of Mercy. Stenographers	53 1 1 19 1	2,052 30 30 856 47 23	30.00	$\begin{array}{c c} 11 \\ 2 \\ 24 \\ 1 \\ 602 \\ 39 \\ 1 \end{array}$	$\begin{bmatrix} 647 \\ 28 \\ 110 \end{bmatrix}$	32.07 58.82 28.00 55.00 29.08 30.00 47.61 40.46 23.00		
Stewardesses Storekeepers Superintendents Tailoresses Teachers Music Telegraph and Telephone Operators		64 110 315		$egin{array}{c} 2 \\ 3 \\ 2 \\ 152 \\ 266 \\ 1 \\ 10 \\ \end{array}$	$ \begin{array}{c} 114 \\ 163 \\ 126 \\ 7,120 \\ 13,348 \\ 24 \\ 299 \end{array} $	57.00 54.33 63.00 46.84 50.18 24.00		
Typewriters. Upholsterers. Waitresses. Total.	1	42		1 1 12	34 341	$42.00 \\ 34.00 \\ 28.42$ 40.75		

TABLE XI.—OCCUPATIONS AND AGES.—(RECAPITULATION.)

	STATE OF RHODE ISLAND.								
OCCUPATIONS.		1901.		FORTY-NINE YEARS AND SEVEN MONTHS, June 1, 1852, to December 31, 1901.					
	Total Mortality.	Aggregate Ages.	Average Age.	Total Mortality.	Aggregate Ages.	Average Age.			
I.									
TILLERS OF THE SOIL	199	12,319	61.90	7,791	519,127	66.63			
II.									
Professional and Personal.	99	5,105	51.57	1,955	105,561	54.00			
· III.									
OPTIONAL ACTIVITY	206	10,697	51.93	5,218	291,713	55.91			
IV.									
Outdoor.—Local	1 39	8,337	59.98	4,175	234,816	56.30			
V.									
Indoor.—Active	326	17,335	53.17	7,419	381,801	51.46			
VI.									
Indoor.—Activity Restricted	385	17,499	45.45	9,151	413,189	45.15			
VII.									
Occupations at Large	669	31,458	47.02	15,810	775,783	49.07			
VIII.									
EMPLOYMENTS OF WOMEN	147	6,171	41.98	3,227	131,498	40.75			
ALL CLASSES	2,170	108,921	50.19	54,746	2,853,488	52.12			

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.

[AGES UNDER TWENTY EXCLUDED.]

Suicide.	1		4	4			
Stomach Diseases,	1		- 23 : :	22	-		: :
Rheumatism.	1			1 .			-:-
Pneumonia.	i		31. 31.	35			· · ·
Pleurisy.			- 1 · ·	1 7			• • •
Old Age.	!		<u> </u>	17			-::
Liver Diseases.	1		21	2			-::
	1		4 · H	1 20	***		
Kidney Diseases.	1			-			· · ·
Insanity.	1			1 70			· ·
Influenza.	ļ			l			
Heart Diseases,	1		1 22	2 26			
Fevers, Typhoid, etc.	ļ			"			· :
Fevers, Malarial.	<u> </u>						
Erysipelas.	<u> </u>		- : : :	:			
Epilepsy.	<u> </u>						
Enteritis.			: : :	:			:
Diarrhoas and Dysentery.			_::-				
Diabetes.		_	4 : :	4			::
Consumption.			11 : 4	15			
Cancer,				14			:-
Bronchitis.			. ლ : თ	ا ت			
Brain, Diseases of.			4 : -	53			: :
Bowel Diseases.			: : :	:			: :
Bladder, Diseases of.			₹ : :	4			:::
Asthma.			: : :	1:			::
Apoplexy and Paralysis.			20	25			:::
Alcoholism.			ന : ⊢	4			:::
Accidents.			∞ : :	o			::
Whole Number.			$\frac{166}{1}$	196			10
				:	7//	۔۔۔	
TIONS.		THE SOIL.				AND PERSONAL	
OCCUPAT	Ï	TILLERS OF	FarmersFloristsGardeners	Total	II	Professional A	Actors

TABLE XII.-OCCUPATIONS AND CAUSES OF DEATH, 1901.-Continued.

Sulcide.	
Stomach Diseases.	· · · · · · · · · · · · · · · · · · ·
Rheumatism,	· · · · · · · · · · · · · · · · · · ·
Pneumonia,	
Pleurisy.	
Old Age.	: : : : : : : : : : : : : : : : : : : :
Liver Diseases.	<u>::::::::</u> ::::::::::::::::::::::::::::
Kidney Diseases.	— : — : : : : : : : : : : : : : : : : :
The sanity.	::::::::::::::::::::::::::::::::::::::
Influenza.	: : : : : : : : : : : : : : : : : : :
Heart Diseases.	си ; си ; н ; н ; е ; ; ; си н ; ; ;
Fevers, Typhoid, etc.	
Fevers, Malarial.	
Erysipelas,	
Ebilepsy.	
Enteritis,	
Diarrhoa and Dysentery.	· · · · · · · · · · · · · · · · · · ·
Diabetes.	
Consumption.	· · नन · · च · शन · नव · शनन ·
	· · · · · · · · · · · · · · · · · · ·
Свисет.	
Bronchitis.	
Brain, Diseases of.	
Bowel Diseases,	
Bladder, Discuses of.	
Asthma.	
Apoplexy and Paralysis,	<u>:- :- : : : : : : : : : : : : : : </u>
Alcoholism,	
Aceidents.	:: = ::: 0 ::::::::::::::::::::::::::::
Whole Zumber.	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
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Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

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Stomach Diseases. Suicide.	-	0.1	
Rheumatism.		1 .	
	<u> </u>	G	
Paeumonia.	- : :	1	
Pleurisy.		· .	
Old Age.		2	
Liver Diseases.	::	-	
Kidney Diseases.	::	00	: : : 2 : : : -
Insanity.	::	-	:::::::
Influenza.	::	=	::: : : : : : : : : : : : : : : : : : :
Heart Diseases.	- :	14	ю : : н н : : г
Fevers, Typhoid, etc.	:::	1	::: = :::
Fevers, Malarial.	::	:	
Erysipelas.	::	:	
Ebilepsy.	i : :	-	
Enteritis.		C1	
Diarrhæa and Dysentery.		-	. H
Diabetes.			· · · · · · · · · · · · · · ·
Consumption.		1.0	
Сапсет.		8	· - · · · · · · · · · · · · · · · · · ·
Bronchitis.			
		, ,	
Brain, Diseases of.		21	::::::::::::::::::::::::::::::::::
Bowel Diseases.			
Bladder, Diseases of.	::		: : : : : : : : : : : : : : : : : : : :
Asthma.	_ : :	:	
Apoplexy and Paralysis.	- :	10	:0:1::1
Alcoholism.	::	_:	: : : : : : : : : : : : : : : : : : : :
Accidents.	::	70	ㅋ : :ㅋ : : :
Whole Number.	4.1	93	100000000000000000000000000000000000000
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	66	Ĭ	III OPTIONAL A Agents and Canvasse Insurance Real Estate Bankers and Brokers Bank Officers Bartenders Bottlers Butchers and Marke

Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

Suicide,	l - :::::::::::::::::::::::::::::::::::
Stomach Diseases.	
Rheumatism.	
Pneumonia.	· 21 · · · · · · · 21 · · · · · · · · · ·
Pleurisy.	
old Age.	
Liver Diseases,	
Kidney Diseases,	्नळवावा : :न : :वा :च :च ==
Insanity.	
Infinenza.	
Heart Diseases,	: : = = 31 = : : : : : : : : : : : : : : : : : :
Pevers, Typhoid, etc.	
Fevers, Malarial.	
Erysipelas.	
Epilepsy.	
Enteritis.	
Diarrhea and Dysentery.	-: :::::::::::::::::::::::::::::::::::
Diabetes.	
Consumption.	
Cancer,	-:: ::::a::::::::::::::::
Bronchitis.	
Brain, Diseases of.	:::::::::::::::::::::::::::::::::::
Bowel Diseases.	-::::::::::::::::::::::::::::::::::::
Bladder, Diseases of.	
Asthina.	
Apoplexy and Paralysis.	· a a a a · · · · · · · · · · · · · · ·
Alcoholism,	
Accidents,	
Whole Zumber.	
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30	Clothiers. Collectors. Commercial Traveler Contractors and Buil Druggists and Apoth Fish and Oyster Dea Fruit. Ice Junk Liquor. News. Provision Grocers. Hotel and Innkeeper Saloon and Restau Stable.
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Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

Stomach Diseases Suicide,		ಣ			$\alpha \cdots$
		က			_
Rheumatism.					
Pneumonia.	.40H				-: %
Pleurisy.	-::::	.c;			-
Old Age.		-:-			
Liver Diseases.	: <u>-</u> :-:-:	<u></u> ෆ		_	
Kidney Diseases.	99	 67		_	01 m · ·
Insanity.		21			: :
		l 44			2
Influenza,		27			- 62 · ·
Heart Diseases.		<u> 6</u>			
Fevers, Typhoid, etc.					• • • •
Fevers, Malarial.		l •			
Erysipelas.					
Epilepsy.	<u> </u>				<u>61</u> · · ·
Enteritis.					GI
Diarrhea and Dysentery					
Diabetes.		<u> </u>			- C2 H
Consumption.	0.6.	18			1227
Сапсет,	: 67 : : : :	∞			
Bronchitis.		es			:_:-
Brain, Diseases of.	:	4			
Bowel Diseases.	: : : : :	<u> </u>			: : : :
Bladder, Diseases of.	:- : : :	4			:c1 : :
Asthma.		:			- : : : :
Apoplexy and Paralysis.	4 1 1 1 1 1 1	26			27 # : :
Alcoholism,		4			
Accidents.	:-:-::				07
Whole Number.	32 32 42 12	194			25.50
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	1.3. · · ·				
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	4				
	anuf srch rk a ilro bace der	tal.			Carpenters an Masons Millwrights.
OCCUPATIONS.	Manufacturers Merchants Pork and Meat Cutters and Packers Railroad Officials Tobacconists Undertakers	Total	IV.	OUTDOOR.—Local.	Carpenters and Joiners

Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

OC 9C PA 4 100 NS. Whole Number. Alcoholism. Alcoholism. Asthma.	Ship Carpenters 1 Stone-catters and Marble-workers 11 Tanners and Curriers 1 Wheelwrights 3		V. Indoor.—Active.	Backsmiths. 29 2 5 Blacksmiths. 29 2 5 Blacksmiths. 4 1 Boschers and Fullers 2 1 Bobbin-makers. 5 1
Bladder, Diseases of. Brain, Diseases of.		21		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Bronchitis. Cancer. Consumption. Diabetes.	2 :1	5 13 2		3 : : : : : : : : : : : : : : : : : : :
Ephlopsy. Diarrhova and Dyseutery.		80 23 :		: : : : : : : : : : : : : : : : : : :
Erysipelas. Fevers, Malarial. Fevers, Typhoid, etc. Heart Discases.	- : - : - : - : - : - : - : - : - : - :			m n1 : : -
Inducuza. Insanity. Kiducy Diseases.		2 11 6		3187
Liver Diseases. Old Age. Pleumsty.		3 414		: 21 : 21 -
Rheumatism. Stomach Divenses.		61		1 : : : :

Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

Suicide,	::::::::::::::::::::::::::::::::::::
Stomach Diseases.	
Rheumatism.	
Pneumonia.	: - : - : - : : : : - : : - : :
Pleurisy.	
Old Age.	
Liver Diseases.	:::::::::::::::::::::::::::::::::::::::
Kidney Diseases.	:::::::::::::::::::::::::::::::::::::::
Insanity.	
Influenza.	
Heart Diseases.	: : : : : : : : : : : : : : : : :
Fevers, Typhoid, etc.	
Fevers, Malarial.	
Erysipelas.	
Epilepsy.	
Enteritis.	
Diarrhea and Dysentery.	
Diabetes.	
Consumption.	::: :- : : : : : : : : : : : : : :
Сапсет,	::::::::::::::::::::::::::::::::::::::
Bronchitis,	:- ::::::::::::::::::::::::::::::::::::
Brain, Diseases of,	: = :::::::::::::::::::::::::::::::::::
Bowel Diseases.	
Bladder, Diseases of.	::-::::::::::::::::::::::::::::::::::::
Asthma.	
Apoplexy and Paralysis.	:::::::::::::::::::::::::::::::::::::
Alcoholism.	
Aecidents,	
Whole Zumber.	
si Si	nmers I Tron
PIONS	mmer:
L	Wo
OCCUPA	Cabinet Cabinet Carriage, and Tr. Pattern Wringer. Sarders Cooks and Caterers Coopers Dyers Gounders, Brass an Foundrymen Gun and Locksmit. Hatters. Lich Rollers and V
၁၀	Bolt-makers Cabinet Carriage, and Trim Pattern Tool Wringer Carders Coorfectioners Coopers Dyers Foundrymen Gundrymen Gundrymen Gundrymen Gundrymen Hatters Lron Rollers and Wo
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TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

Suicide.		- x
Stomach Diseases.		ω.
Rheumatism,		
Pneumonia,	:5 + 9 t + 1 : : : # : : : : : : : : : : : : : : :	_ & _
Pleurisy.		31
.92A blo	;31 : : - : : : : : : : : : : : : : : : :	က
Liver Diseases.		ြင
Kldney Diseases.	<u> </u>	왁
Insanity.		7
Influenza.	트를 : :의 : : : : : : : : : : : : :	1-
Reart Diseases.	: : : : : : : : : : : :	37
Pevers, Typhoid, etc.	:::: ::::::::::::::::::::::::::::::::::	୍ଦ୍ରୀ ି
Pevers, Malarial.		:
Erysipelas.		:
Epilepsy.		
Enteritis.	· + : : : : : : : : : : : : : : : : : :	9
Diarrhora and Dysentery.		•
Diabetes.		9
Consumption.	нанажнан	
Сапсет.		1 50
		114
Brouchitis.		-5
Brain, Diseases of.		80
Bowel Diseases,		ಣ
Bladder, Diseases of.		
Asthua.		7
Apoplexy and Paralysis.	: : : : : : : : : : : : : : : : : : :	32
Alcoholism.		÷1
Accidents.	::: :- :: ::: ::: ::: ::: ::: ::: :::	_51_
Whole Zumber.	21 22 4 1 1 1 2 2 2 1 2 3	305
		:
·	### ### ### ### ### ### ### ### ### ##	
	co-workers.	:
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NOUS		
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occupa	s a s : : : :	:
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	s	:
•	Loom-fixers. Machanists. Mechanics. Moulders. Painters and Chaziers. Plasterers and Stucco-v Plumbers. Refiners, gold. Sugar. Steampipers. Steampipers. Upholsterers. Wire-workers.	Total
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Table XII.-OCCUPATIONS AND CAUSES OF DEATH, 1901.-Continued.

Rheumatism. Stomach Diseases. Suicide.	
Pneumonia.	
Pleurisy.	
Old Age.	
Liver Diseases.	
Kidney Diseases.	
Insanity.	
Influenza.	
Heart Diseases.	
Fevers, Typhoid, etc.	
Fevers, Malarial.	
Erysipelas.	
Epilepsy.	
Enteritis.	<u>: : : : : : : : : : : : : : : : :</u>
Diarrhæa and Dysentery.	
Diabetes.	
Consumption.	
Сапсет.	: : : : : : : : : : : : : : : : : : : :
Bronchitis.	:::::::::::::::::::::::::::::::::::::::
Brain. Diseases of.	
Bowel Diseases.	: : : : : : : : : : : : : : : : : : : :
Bladder, Diseases of.	
Asthma.	::
Apoplexy and Paralysis.	1 : 1 : 1 - 1 - 1 : 2
Alcoholism.	<u> </u>
Accidents.	::-:::::
Whole Number.	16 175 175 182 182 183 183 183 183 183 183 183 183 183 183
OCCUPATIONS.	VI. Barbers. Bookbinders. Bookbeepers and Accountants. Clasur-makers. Sail Sail Shoe Clerks and Salesmen Enamelers. Enamelers.

Table XII.-OCCUPATIONS AND CAUSES OF DEATH, 1901.-Continued.

Suicide.	::::=::::::::::::::::::::::::::::::::::	73
Stomach Diseases.	: : : : = : : : : : : : : : :	ಣ
Rheumatism.	::::=::::::::::	_
Pneumonia.	-: :4 ; w - o1 : : - : ro :	댦
laleurisy.		31
Old Age.	: :01 := := : :=01 : :	x
Liver Diseases,	· : - : - : : : - :	5.
Kidney Diseases.		Ŧ
Insanity.	21	21
Influenza.		_ w
Heart Diseases.	· · · · · · · · · · · · · · · · · · ·	45
Fevers, Typhoid, etc.		
Fevers, Malarial.	:: <u>-</u> ::::::::::::::::::::::::::::::::	
Erysipelas.		
Epilepsy.		
Enteritis.	:::::::::::::::::::::::::::::::::::::::	
Diarrhoan and Dysentery.	:_:::::::::::::::::::::::::::::::::::	 -
Diabetes.	_ : _: : : : : : : : : : : : : : : : :	က
Consumption.	요 : 컵 : 컵 ㅁㅁ : 쿡 ? ㅁㅁ	9 11 105
Сапсет,	31 · 31 · 31 · · · · · · · ·	==
Bronchitis.		— <u>5</u> —
Brain, Diseases of,		33
Bowel Diseases,		
Bladder, Diseases of.		
Asthma.	· · · · · · · · · · · · · · · · · · ·	
Apoplexy and Paralysis.		7 19
Alcoholism.	: :3 :8 : : - : : - :	
Accidents,	: : 2 : 2 : : : : : : : : : : : : : : :	25
Whole Number.		363
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OCCLP	File-cutters Finishers Jewelers Millers Operatives Polishers Printers Rubber-workers Rubber-workers Tailors Wool-sorters	:
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	ter she she she she she she she she she she	-
	File-cutters Finishers Jewelers Millers Operatives Polishers Printers Rubber-worke Silversmiths. Tailors Weavers Weavers	Total
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Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

OCCUPATIONS. Whole Number. Accidents. Alcoholism.	VII. Docurations at Large. 2 Boatmen. 2 Brakemen. 3 Butters. 2 Coachmen. 2 Coachmen. 9 Drivers. 9 Hack and Cab. 8 Engineers and Firemen. 8 Engineers and Firemen. 2 Five Company Members. 2 Fishermen. 9 Hostlers. 9
Astluma. Bladder, Diseases of.	
Bowel Diseases.	
Brain, Diseases of. Bronchitis.	
Сапсет.	: : : : : : : : : : : : : : : : : : :
Consumption.	:::
Diabetes.	:::::::::::::::::::::::::::::::::::::::
Diarrhea and Dysentery.	
Enteritis.	
Epilepsy.	
Fevers, Malarial.	
Fevers, Typhoid, etc.	
Heart Diseases.	4 : : :24 : : : : : : : : : : : : : : :
Influenza.	
Insanity.	:::::::::::::::::::::::::::::::::::::::
Kidney Diseases.	: : : : : : : : : : : : : : : : : : :
Liver Diseases.	
Old Age.	:::::::::::::::::::::::::::::::::::::::
Pleurisy.	
Pneumonia,	: : : : : : : : : : : : : : : : : : :
Rheumatism	:::::::::::::::::::::::::::::::::::::::
Stomach Diseases.	
Suicide.	

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

Sulcide.	:2 : : : : = = : : = : :	9
Stomach Diseases.	$-\infty$::::::::::::::::::::::::::::::::::::	5
Rheumatism.		-
Pneumonia.	27 : : : : 9 : :	55
Pleurisy.		33
Old Age,	<u> </u>	1-
Liver Diseases.		13.
Kidney Diseases.		61
Insanity.	. 01	m_
Influenza.	٠٠٠	x
Heart Diseases.	ro 8 : L : : : : : : : : : : : : : : : : :	SS
Fevers, Typhold, etc.	6 H	178
Fevers, Malarial.		<u></u>
Erysipelas.		
Epilepsy.		21
Enteritis.	· · · · · · · · · · · · · · · · · · ·	10
Diarrhea and Dysentery.	· cı · · · · · · · · · · · · · · · · · ·	- G1
Diabetes.		ro
Consumption.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	130
Сапсет.	: <u>3</u> : : : : : : : : : : : : : : : : : : :	61
Bronchitis,		10 17 26
Brain, Diseases of,		-6-
Bowel Diseases.		-12-
Bladder, Diseases of.	· · · · · · · · · · · · · · · · · · · ·	<u>-</u>
Asthma.	 	C1
Apoplexy and Paralysis.	त्त्व : : : : : : : : : : : : : : : : : : :	42
Alcoholism.		_
Accidents.	:# : : - : : : : : : : : : : : : : :	75 1
Whole Zumber.	212 28 28 28 28 28 28 28 28 28 28 28 28 28	848
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	tring in the light	3
	Janitors Laborers. Laundrymen Longshoremen Lumbermen Mail-carriers Milkmen Peddlers Sailors Sailors Soldiers Switchmen and Gate Teamsters. Waiters.	Total

TABLE XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—Continued.

OCCUPA-TIONS Whole Number. Accidents. Accidents. Accidents.	WIII. Boarding-house Keepers. 1 Bookkeepers. 5 Chainmakers. 1 Dressmakers. 19 Clerks. 19 Cooks. 4 Jawelers. 2 Milliners. 2 Nurses. 2 Rubber-workers. 11 Sculptors. 11
Asthms. Bladder, Diseases of.	
Bowel Diseases.	:
Brain, Diseases of.	<u>ы</u>
Bronchitis.	
Cancer. Consumption.	4 = 0 = 0
Diabetes,	
Diarrhea and Dysentery.	
Enteritis.	
Epilepsy.	
Erysipelas.	: : : : : : : : : : : : : : : : : : : :
Fevers, Malarial.	:::::::::::::::::::::::::::::::::::::::
Fevers, Typhoid, etc.	: : : : : : : : : : : : : : : : : : : :
Heart Diseases.	пн :e :пп : :по : :
Influenza.	:::=:::::::::::::::::::::::::::::::::::
Insanity.	
Kidney Diseases.	: :HHH : : : :40 : :
Liver Diseases.	
Old Age.	
Plenrisy.	
Pneumonia,	
Rheumatism.	
Stomach Diseases. Sulvide.	:_:-:-:-:-:-:-:-:-:-:-:-:

TABLE XII. - OCCUPATIONS AND CAUSES OF DEATH, 1901. - Continued.

Influenza. Insunity. Kidney Diseases.	+	-:	:	-:	-:	2 1		3 1 20	
Heart Diseases.		=	<u>:</u>	<u>:</u>		Н	÷	18	-
Fevers, Typhoid, etc. !	:	:	:	:	:	:	:	-	_
Fevers, Malarial.		:	:	:	:	:	:		_
Erysipelas.	:	:	:	:	:	:	:	:	-
Epilepsy.	-:	:	:	:	:	:	:	:	
Enteritis.	:	:	:	:	:	:	:	:	
Diarrhea and Dysentery.	:	:	:	:	:	:		ા	
Diabetes.	_	:	:	:	:	:	:	10	
Consumption.	_ ೞ	:	_	:	:	_	:	19	
Сапсет,	ന	:	:	:	:	:	:	15	
Bronchitis.	:	:	:	:	:	:	:	-	
Brain, Diseases of.	_:	:	:	:	:	:	:	ಞ	
Bowel Diseases.	:	:	:	:	-	:	:	က	
Bladder, Diseases of.	:	:	:	:	:	:	:	:	
Asthma.	_ :	:	:	:	_:	:	:	-	
Apoplexy and Paralysis.	4	:	:	;	:	:	:	9	
Alcoholism.	_ :	:	:	:	:	:	:	:	
Accidents.	7	:	:	_	:	:	:	L-	
Whole Number.	19	-	1	_	SV	9	-	143	
OCCUPATIONS.	Servants	sisters of Mercy	stenographers	Storekeepers	ailoresses.	[eachers	lypewriters	Totul	

Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—(RECAPITULATION.)

Sulcide.	l 4	67	က	c1	00
Stomach Diseases.		- 23	က	70	က
Rheumatism.		•	•	•	-
	35	e_		 -	36
Pneumonia.					<u></u>
Pleurisy.		<u> </u>		14	
Old Age.	17		9	4	
Liver Diseases.			<u> </u>		
Kidney Diseases.	15	∞	29	9	42
Insanity	:		H		7
Influenza.	, re		4	- 21	
Heart Diseases.	26	14	27	18	25
Fevers, Typhoid, etc.	2		9		2
Fevers, Malarial.		•	:	:	
Erysipelas.	:	:	:	:	
Epilepsy.	-	H	:	:	
Enteritis.	:	જ	-	67	9
Diarrhea and Dysentery.		. 1		က	
Diabetes.	4	:	11	CI	9
Consumption.	15	19	18	13	20
Сапсет.	177	00	∞	ರ	1
Brouchitis,	70	27	က	:	4
Brain, Diseases of.	50	-	4	:	9
Bowel Diseases.	:	6.7	Н	:	or.
Bladder, Diseases of.	4	Н	4	C/J	cr.
Asthma.	:	:	:	:	4
Apoplexy and Paralysis.	25	10	26	16	30
Alcoholism.	 4	:	4		c
Accidents.			6	18	9.1
stacking					
Whole Number.	196	93	194	132	309
	<u>:</u>	:	:	:	
OCCUPATIONS.	I. TILLERS OF THE SOIL	II. Professional and Personal	III. Optional Activity	IV. OUTDOOR.—Local	V. Innone Author

Table XII.—OCCUPATIONS AND CAUSES OF DEATH, 1901.—(Recapitulation.)—Continued.

Sufcide.	10	16	-	T
Stomach Diseases.	ಣ	6	-	87
Rhenmatlam.		H	:	က
Pneumonia.	31	<u> </u>	t~	217
Plenrisy.	OI.	00	:	31
Old Age,	∞	17	-	83
Liver Diseases.	6	1317	_	7
Kidney Diseases.	7	61	20	273 33 20 222
Insanity.	G1	က	-	20
Influenza.	က	œ	<u> </u>	
Heart Diseases.	#5	88	18	273
Fevers, Typhoid, etc.	16	14	7	43
Fevers, Malarial.	:	લ	:	ಣ
Erysipelas.		H	:	C1
Epilepsy.	-	37	:	73
Enteritis.	73	rc.	:	[2]
Diarrhea and Dysentery.	#	Ç1	31	17
Diabetes.	က	ದ	r.c	36
Consumption.	11 105	26 130	46	396
Сапсет.			15	16 32 41 101 396 36 14
Bronchitis.	6	17		-
Brain, Diseases of.	ಣ	10	က	87
Bowel Diseases.	C1	ro	<u>က</u>	16
Bladder, Diseases of.		[~	:	25
Asthma.	1	C1		
Apoplexy and Paralysis.	19	42	9	176
Alcoholism.	2	11	:	29
Accidents.	25	75	7	168
Ироје Дашрег.	363	849	143	2,071 168 29 176
OCCUPATIONS.	VI. Indoor.—Activity Restricted	VII. Occupations at Large	VIII. Employments of Women	All Classes

TABLE XII.—SUPPLEMENTAL DISEASES.

Vesical Calculi.	:::::::::::::::::::::::::::::::::::::
Tumor of Abdomen.	
Tetanus.	
Tabes Dorsalis.	
Syphilis	
Spinal Sclerosis.	::::::::::::::::::::::::::::::::::::::
Smallpox.	: H : : : : : : : : : : : : : : : : : :
Saturnism.	
Prostate Disease.	:::===::==:::::::
Neuritis.	1::::::::::::::::::::::::::::::::::
Necrosis of Femur.	
Myxœdema.	
Myelitis.	: : : : : : : : : : : : : : : : : : : :
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Table XII.—SUPPLEMENTAL DISEASES.—Continued.

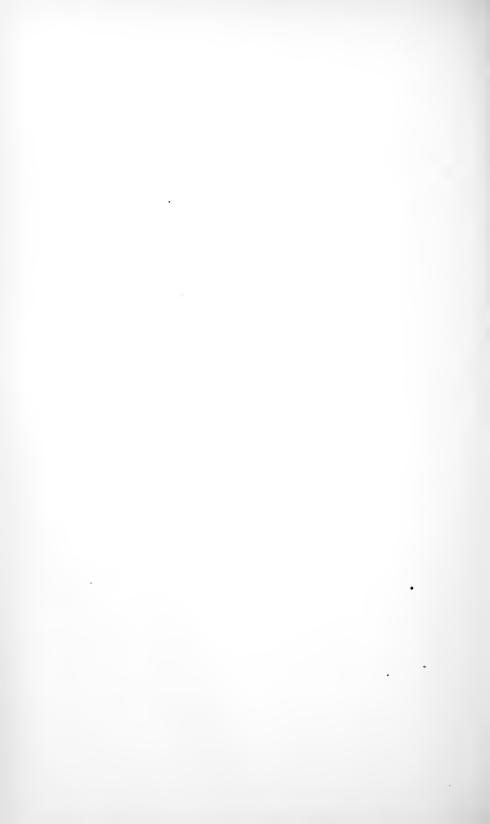
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Table XII.—SUPPLEMENTAL DISEASES.—Continued.

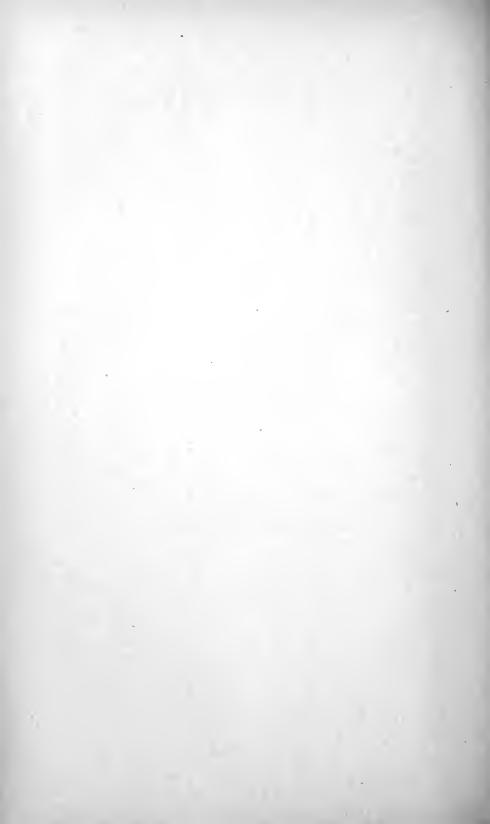
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Table XII.—SUPPLEMENTAL DISEASES.—Concluded.

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Aneurism of Aorta.			1 . 11 63
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RESULTS AND OBSERVATIONS.			
RESULTS AND OBSERVATIONS.			
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GENERAL SUMMARY.

The number of births registered in the State of Rhode Island, during the year 1901, was eleven thousand two hundred and ninety-two (11,292); the number of marriages, three thousand eight hundred and forty-six (3,846); and the number of deaths, seven thousand nine hundred and sixty-six (7,966).

TABLE XIII.

General Results of Registration for Ten Years, 1854-1863, and for each of the last Thirty-eight Years.

čears.	Whole Number of Births.	Still-born.	Living Births.	Marriages.	Deaths
854-1863	38,042	1,471	36,571	14,943	24,230
864	3,892	138	3,754	1,844	3,360
865	3,955	177	3,778		3,405
866	4,902	172	4,730	2.318	2,970
867	5,127	163	4,964	2,344	2,889
868	5,372	212	5,160	2,285	2,912
869	5,245	220	5,025	2,289	3,389
870	5,215	234	4,981	2,362	3,238
871	5,678	223	5,455	2,336	3.34
872	6,143	202	5,941	2,537	4,247
873	6,022	228	5,794	2,630	4,405
874	6,466	277	6,189	2,541	4,229
875	6,508	246	6,262	2,485	4,317
876	6,329	224	6,105	2,253	4,116
877	6,235	242	5,993	2,282	4,450
878	6,714	248	6,466	2,324	4,441
879	6,350	216	6,134	2,396	4,475
	6,295				
881	6,761		6,497		5,016
882	6,825	253	6,572	2,634	5,074
883	7,046	253	6,793	2,611	5,28
884	7,305	272	7,033	2,558	5,141
885	7,028	271	6,757	2,488	5,389
886	7.621	293	7,328	2,750	5,849
227	7,668	976	7 300	9 689	6 340

Table XIII.—Concluded.

Years.	Whole Number of Births.	Still-born.	Living Births.	Marriages.	Deaths.
1888	7,840		7,545	3,022	6,594
	8,220				
	8,550				
	9,426				
	9,270				
	10,048				
	9,985				
	10,249				
	11,174				
	11,218				
	11,143				
	11,220				
	11,458				
	11,761				

During the period of forty-eight years there were recorded, in Rhode Island, 326,306 births, of which number 12,165 were still-born, and 314,141 were living children.

During the same period there were recorded 120,801 marriages, or 241,602 persons married; and 229,029 deaths.

These results show that in every 26.8 births there was one still-born child, or that in every 1,000 births there were about 37 still-born and 963 living children.

The same results also show that the ratio of whole number of living births to the whole number of persons married, and to the whole number of decedents respectively, during the same period, was as follows:

	Of	Of
	persons married.	Deaths.
For every 100 living births there were	and	72.9

The number of births in 1901 was 208 in excess of the previous year; the number of marriages 90 less, or 180 less persons married; and there was a decrease of 857 deaths.

For every 100 births there were:

v	Of	
	persons married.	Deaths.
In 1897	58.1and	65.9
In 1898	and	64.4
ln 1899	63.4and	68.9
In 1900		79.6
In 1901		70.5

TABLE XIV.

Comparative Exhibit of Births, Marriages, and Deaths in each Town in Rhode Island, in each of the Six Years 1896-1901, and Excess of Births over the Deaths in 1901.

Births.	Excess of	323	8	34 1 888 888 888	370	2000 - 100 mg - 100 m	100
	1901.	នួក្ខន	2.10	11 55 55 55	601	1218128	1
	1900.	150 106 106	297	105 105 115 515	505	2222222	1
rus.	1899.	213	351	8858	57.7	8222388	1
DEATHS	1898.	001 001 100 100	212	25 a 25	516	2552525	1
	1897.	386	231	86 g 38	536	F3152284	:
	1896.	151 151 151	933	116 60 10 397	25.	~#888#88	
	1901.	9 18 25	8	88.18	257	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100
	1900.	222	82	36 17 191	235	200 100 110 120 130 130 130 130 130 130 130 130 130 13	940
AGES.	1899.	e g g	26	35 8 cs 25	682	88 4 19 18 18 18 18 18 18 18 18 18 18 18 18 18	0,00
MARRIAGES	1898.	11 36 86	82	18 31 156	202	150 150 10 11	000
	1897.	37.	ž	17 18 123	173	4H 284 - 9	000
	1896.	01 88 83	250	26 TI	158	824511 831	100
	1901.	457	939	160 44 857	176	25 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	002
	1900.	35. 15. 185	361	133 115 713	876	15 23 33 599 13 66	20%
HS.	1899.	34 141 149	F68	\$6.00 pt.	216	1288998F	* 10
віктиѕ	1898.	888	310	137 39 7 7 798	186	88897878	200
	1897.	35 143 158	336	122 131 103	868	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	210
	1896.	28 150 105	283	25 × 28	934	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1
TOWNS	AND DIVISIONS OF THE STATE.	Barrington	BRISTOL COUNTY	Coventry	KENT COUNTY	Jamestown Little Compton Middletown Newport City New Slorelum Portsmouth	Newbont Constv

Table XIV.—Concluded.

of Births eaths.	Excess o	28.25.25.25.25.25.25.25.25.25.25.25.25.25.	55		3,326
	1901.	96 1990 1990 1990 1990 1990 1990 1990 19	394	245	2,966
	1900.	111 1128 1128 1128 1121 1140 1	439	254	8,823
CHS.	1899.	100 100 100 100 100 100 100 100 100 100	360	175	7,458
DEATHS	1898.	95 20 20 20 20 20 20 20 20 20 20 20 20 20	369	170	6,905
	1897.	253 253 253 253 253 253 253 253 253 253	371	192	7,110
	1896.	99 158 168 168 168 188 188 188 188 188 188 18	388	179	7,504
	1901.	151 154 154 155 155 155 155 155 155 155	188	i	3,846
	1900.	35 161 161 173 173 173 173 173 173 173 17	211		3,936
AGES.	1899.	88.42.42.42.42.42.42.42.42.42.42.42.42.42.	169	:	3,433
MARRIAGES	1898.	884 886 887 887 887 887 888 888 888 888 888	187		3,278
F	1897.	85 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	203		3,137
	1896.	221 221 221 222 232 233 243 243 243 243 243 243 243	503	:	3,327
	1901.	130 238 238 238 238 238 231 231 241 250 250 250 250 250 250 250 250 250 250	449	:	11,292
	1900.	131 252 252 253 253 253 253 153 153 153 163 163 163 163 163 163 163 163 163 16	405	:	11,084
HS.	1899.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	431		10,831
BIRTHS	1898.	167 288 288 288 288 288 288 281 281 281 281	445		10,730
	1897.	1131 2502 2502 2504 2504 2504 2505 2505 2505	467		10,795
	1896.	250 250 250 250 250 250 250 250 250 250	490	:	10,750
TOWNS	AND DIVISIONS OF THE STATE.	Burrillville CENTRAL FALLS CUMDerston* Cumberston* East Providence Foster Goster Johnston North Providence North Smithfield PAWTUCKET. Schuate Smithfield PAWTUCKET. PROVIDENCE CITY SCHUATE Smithfield PAWTUCKET. PROVIDENCE CITY Charlestown Exeter. Hopkinton South Kingstown South Kingstown Keter. Hopkinton South Kingstown Westerly	WASHINGTON COUNTY	STATE INSTITUTIONS	WHOLE STATE

* Exclusive of Deaths in State Institutions.

The varying numbers of the events of births, marriages, and deaths occurring in the different towns during each of the six years ending December 31, 1901, are very concisely presented in Table XIV, and a ready means is thereby afforded of comparing and studying the changes in the vital movements of the people in the different precincts during those years.

The actual increase of population in the State, for the ten years 1890 to 1900, was 83,048, or 24.0 per cent., or an annual average of two and four-tenths per cent. The increase by immigration must have been nearly twice as large as the natural increase.

TABLE XV.

Births, Marriages, and Deaths in Rhode Island, in 1901, with the number and ratio of each in every 1,000 of the population of each town, and the ratio of excess of the births over the deaths in every 1,000 of the population.

TOWNS AND DIVISIONS OF THE STATE.	Population in 1901.	Births.	Births per 1,000 of population.	Marriages.	Persons married per 1,000 of population.	Deaths.	Deaths per 1,000 of population.	Excess of Births per 1,000.
Barrington	1,111 7,090 5,195	41 142 147	36.9 20.0 28.3	9 31 53	16.2 8.7 20.4	25 121 94	22.5 17.1 18.1	14.4 2.9 10.2
BRISTOL COUNTY	13,396	330	24.6	93	13.9	240	17.9	6.7
Coventry . East Greenwich	5,324 2,754 592 21,802	160 44 9 758	30.1 16.0 15.2 34.8	25 25 1 206	9.4 18.2 3.4 18.9	114 56 6 425	21.4 20.3 10.1 19.5	8.7 -4.3 5.1 15.3
KENT COUNTY	30,472	971	31.9	257	16.9	601	19.7	12.2
Jamestown Little Compton Middletown NEWPORT CITY New Shoreham Portsmouth Tiverton Tiverton	1,622 1,137 1,497 22,408 1,410 2,130 3,003	20 25 34 576 13 54 60	12.3 22.0 22.7 25.7 9.2 25.4 20.0	6 5 3 165 13 6 14	7.4 8.8 4.0 14.7 18.4 5.6 9.3	14 19 14 386 14 31 69	8.6 16.7 9.4 17.2 9.9 14.6 23.0	3.7 5.3 13.3 8.5 -0.7 10.8 -3.0
NEWPORT COUNTY	33,202	782	23.5	212	12.8	547	16.5	7.0
Burrillville. CENTRAL FALLS. Cranston * Cumberland East Providence Foster Glocester Johnston Lincoln North Providence North Smithfield PAWTUCKET PROVIDENCE CITY Scitnate Smithfield WOONSOCKET	6,375 18,585 11,630 8,970 12,533 1,135 1,403 3,918 9,015 2,345 40,435 180,355 180,356 2,061 28,931	130 516 286 238 276 2117 265 43 50 1,019 4,696 53 39 988	20. 4 27.8 24. 6 26. 5 22. 0 18. 5 16. 4 29. 9 29. 4 13. 8 21. 3 25. 2 26. 0 15. 8 18. 9 33. 9	51 154 47 83 92 4 7 8 57 6 12 375 1,875 23 287	16.0 16.6 8.1 18.5 14.7 7.0 10.0 4.1 12.6 3.9 10.2 18.5 20.8 8.9 22.3 19.8	96 300 194 143 162 25 30 57 148 46 37 667 3,444 83 28 479	15.1 16.1 16.7 15.9 12.9 22.0 21.4 14.5 16.4 15.8 16.5 19.1 124.7 13.6 16.5	5.3 11.7 7.9 10.6 9.1 -3.5 -5.0 15.4 3.0 -1.0 5.5 8.7 6.9 -8.9 5.3 17.4
PROVIDENCE COUNTY	334,170	8,760	26.2	3.096	18.5	5,939	17.8	8.4
Charlestown Exeter Hopkinton Narragansett North Kingstown South Kingstown Richmond* Westerly WASHINGTON COUNTY	985 834 2,589 1,542 4,147 5,080 1,498 7,652 24,327	17 4 42 14 75 99 23 175 	17.2 4.8 16.2 9.1 18.1 19.5 15.4 22.9	$\begin{array}{ c c c }\hline & 4\\ 7\\ 20\\ 10\\ 28\\ 34\\ 7\\ 78\\ \hline \hline & 188\\ \hline \end{array}$	8.1 16.7 15.4 13.0 13.5 13.4 9.3 20.4	19 15 48 17 72 82 26 115	19.3 18.0 18.5 11.0 17.4 16.1 17.4 15.0	$ \begin{array}{c c} -2.1 \\ -13.2 \\ -2.3 \\ -1.9 \\ 0.7 \\ 3.4 \\ -2.0 \\ -7.9 \\ \hline 2.3 \end{array} $
STATE INSTITUTIONS	2,321					245	105.6	
Whole State	437,888	11,292	25.8	3,846	17.6	7,966	18.2	7.6

^{*} Not including State Institutions,

In Table XV, on the preceding page, may be found the varying proportions of the number of births, marriages, and deaths, to every 1,000 of the population in the various towns and cities in the State, as they occurred in 1901.

BIRTHS.

Proportion to Population.

In regard to births, the extreme range of proportion to population was from 4.8 in every 1,000, in Exeter, to 36.9 in Barrington, Following Barrington, in the line of largest proportion, are Warwick, with 34.8; Woonsocket, with 33.9; and Johnston, with 29.9. Following Exeter, in the line of smallest proportion of births to population, are Narragansett, with 9.1 in every 1,000; New Shoreham, with 9.2; and Jamestown, with 12.3.

The proportions of births to population, in all the counties entire, and in the cities of Central Falls, Newport, Pawtucket, Providence, Woonsocket, and the whole State, during the last seven years, are as follows:

BIRTHS TO EVERY 1,000 PERSONS.

	1901	1900	1899	1898	1897	1896	1895
Bristol County	24.6	27.5	22.7	22.0	27.1	23.0	25.2
Kent County	31.9	29.2	27.8	29.6	28.0	30.1	25.2
Newport County	23.5	24.0	21.2	22.9	22.8	24.8	24.8
Newport City	25.7	27.0	26.7	26.1	25.4	27.9	26.9
Providence County	26.2	26.5	26.4	26.8	27.9	28.3	26.8
Central Falls	27.8	33.6	31.0	32.2	30.2	35.2	
Pawtucket	25.2	26.1	26.1	29.5	28.3	27.5	28.4
Providence City	26.0	25.6	25,9	27.6	27.2	27.8	27.5
Woonsocket,	33.9	34.0	29.5	29.3	32.5	33.9	32.4
Washington County	18.5	16.6	16.8	17.5	18.5	19.6	17.9
Whole State	25.8	25.9	25.6	25.9	26.8	27.3	25.7

Persons Married.

Proportion to Population.

The proportion to the population, of persons married, can be more correctly shown in counties, or in cities and aggregates of towns, than in single towns.

The following summary will present the proportions in the manner suggested, for the last seven years:

PERSONS MARRIED IN EVERY 1,000.

	1901	1900	1899	1898	1897	1896	1895
Bristol County	13.9	12.9	11.3.	12.3	13.5	14.0	14.2
Kent County	16.9	15.7	14.0	12.4	10.7	10.2	11.2
Newport County	12.8	15.8	13.5	11.9	13.1	13.1	15.2
Newport City	14.7	18.7	14.5	13.6	14.1	14.4	17.1
Providence County	18.5	19.3	17.3	17.0	16.5	18.2	19.6
Central Falls	16.6	17.7	15.4	16.9	14.1	15.3	
Pawtucket	18.5	21.3	17.1	14.9	16.7	20.9	21.2
Providence City	20.8	21.6	20.1	20.3	27.2	21.4	22.2
Woonsocket	19.8	20.0	18.3	16.5	32.5	16.8	20.4
Washington County	15.5	17.5	13.2	14.7	18.5	16.7	17.2
Whole State	17.6	18.4	16.2	15.8	26.8	17.0	18.2

DEATHS.

Proportion to Population.

The number of deaths, in proportion to the living population, varies considerably from year to year in the different towns. The smaller the towns the greater generally is the annual variation.

The highest rate occurred in Scituate, that is, 24.7 in every 1,000 of the population; followed by Tiverton, 23.0, and Barrington, 22.5.

The lowest death rate was in Jamestown, that is, 8.6 in every 1,000 of the population; followed by Middletown, with 9.4, and New Shoreham, with 9.9.

The following summary will give the ratios of mortality to the population in the cities and counties of the State, during the seven years ending December 31, 1901:

DEATHS IN EVERY 1,000 OF POPULATION.

	1901	1900	1899	1898	1897	1896	1895
Bristol County	17.9	22.6	17.6	15.0	18.6	17.9	20.9
Kent County	19.7	23.6	16.8	15.6	16.7	18.8	17.4
Newport County	16.5	18.7	17.6	15.5	16.2	17.0	15.9
Newport City	17.2	19.2	17.6	15.8	16.9	17.5	16.5
Central Falls	16.1	19.4	14.1	12.5	13.2	19.9	
Pawtucket	16.5	20.2	14.4	15.0	17.7	18.3	20.1
Providence City	19.1	20.9	19.1	12.5	18.6	19.9	21.2
Woonsocket	16.5	19.7	18.6	16.6	17.5	20.8	18.3
Providence County	17.8	19.9	17.6	16.7	17.6	19.2	20.1
Washington County	16.2	18.2	14.1	14.5	14.7	15.3	15.0
Whole State	18.2	20.6	17.6	16.7	17.6	19.1	19.6

The proportion of deaths to the living population in 1901 was smaller than the annual average of the previous six years in nearly every county and city in the State.

TABLE XVI.

Proportion of Births, Marriages, and Deaths to the Population, in the Whole State, in each of the last thirty-three years.

		BIR	THS.	MARR	IAGES.			
YEARS.	Popula- tion.	Number.	Of population, one birth in every	Number.	Of population, one person married in every	Number.	Of population, one death in every	Deaths in every 1,000 of the popu- lation.
1869	211,380	5,245	40.3	2,289	46.2	3,382	62.5	16.
1870	218,555	5,215	41.9	2,362	46.2	3,238	67.5	14.
1871	225,968	5,676	39.8	2,336	.48.4	3,344	67.6	14.
1872	233,637	6,143	38.0	2,537	46.0	4,247	55.0	18.
1873	241.561	6,022	40.1	2,630	45.9	4,403	54.8	18.
1874	249,765	6,466	38.6	2,541	49.1	4,229	50.0	16.
1875	258,239	6,508	39.7	2,485	52.0	4,317	59.8	16.
1876	262,513	6,329	41.5	2,253	58.3	4,116	63.8	15.
1877	266,850	6,235	42.8	2,282	58.4	4,450	60.0	16.
1878	271,269	6,714	40.4	2,324	58.4	4,441	61.1	16.
1879	275,753	6,350	43.4	2,396	57.5	4.472	61.7	16.5
1880	280,319	6,295	44.5	2,769	50.6	4,829	58.0	17.
1881	284,960	6,761	42.1	2,750	51.8	5,016	56.8	17.
1882	289,667	6,825	42.4	2,634	55.0	5,074	57.1	17.5
1883	294,460	7,046	41.8	2,611	56.4	5,282	55.7	17.
884	299,329	7,305	41.0	2,558	58.5	5,141	58.2	17.
1885	304,284	7.028	43.3	2,488	61.2	5,389	56.5	17.1
1886	311,507	7,621	40.9	2,750	56.6	5,848	53.3	18.
1887	318,907	7,668	41.6	2,839	56.2	6,340	50.3	19.
1888	326,477	7,840	41.6	3,022	54.0	6,594	49.5	20.
1889	834,223	8,220	40.7	3,029	55.2	6,259	53.4	18.
1890	342,169	8,550	40.0	3,195	53.5	6,934	49.3	20.5
1891	350,292	9,426	87.2	3,320	52.8	6,620	52.9	18.5
1892	358,608	9,270	38.7	3,502	51.2	7,396	48.5	20.1
1893	367,125	10,048	36.5	3,544	51.9	7,440	49.3	20.
1894	375,836	9,985	37.6	3,271	57.4	7,160	52.5	19.
1895	384,758	9,882	38.9	3,497	55.0	7,535	51.1	19.0
1896	393,891	10,750	36.6	3,327	59.2	7,504	52.5	19.
1897	403,245	10,795	37.4	3,137	64.3	7,110	56.7	17.0
1898	414,413	10,730	38.6	3,278	65.2	6,905	60.0	16.
1899	422,620	10,831	39.0	3,433	61.5	7,458	56.7	17.0
1900	428,556	11,084	38.7	3,936	54.4	8,823	48.6	20.6
1901	437,888	11,292	38.8	3,846	56.9	7,966	55.0	18.5

During the ten years 1871–1880, the average annual birth rate was one birth to every 39.7 of the population, or 25.2 births in every 1,000; during the ten years 1881–1890, the average birth rate was one birth in every 41.0 of the population, or 24.3 in every 1,000, a falling off of a proportion of nearly one birth in every 1,000 of the population.

From 1891 to 1900 the average annual birth rate was one birth in every 37.9 of the population, or 26.2 in every 1,000.

During the period of ten years 1871–1880, the average annual death rate was one in every 58.4 of the population, or 17.2 in every 1,000, according to the returns. During the ten years 1881–1890, the average annual death rate was one in every 53.4 of the population, or 18.8 in every 1,000 of the living. From 1891 to 1900 the average annual death rate was one in every 52.9 of the population, or 19.0 in every 1,000 of the living.

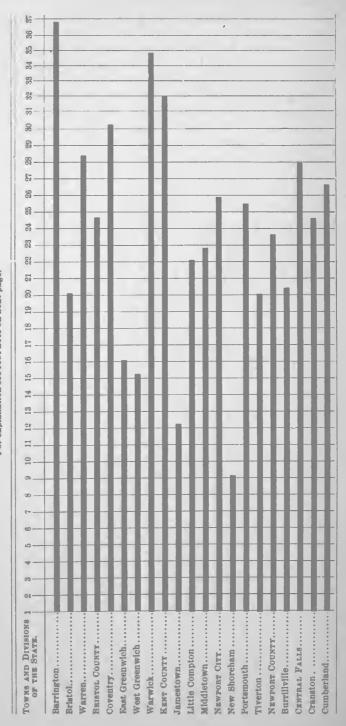
It must be remembered, however, that the returns during the last ten years have been more complete than in previous years.

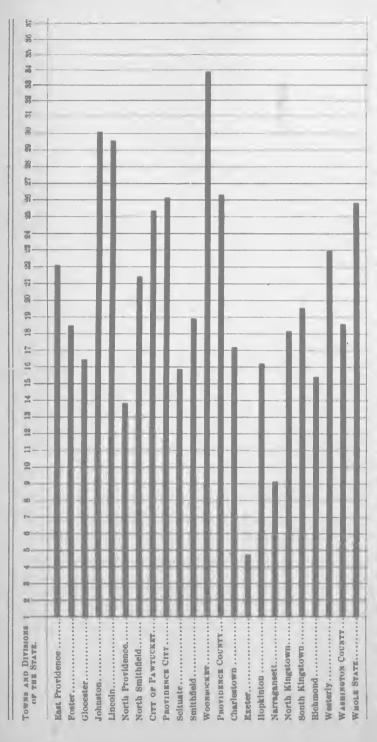


BIRTH RATES.

Diagram I.— Showing the Number of Births in every 1,000 of the Population, in each Town and each County in the State, during the Year 1901, computed upon an estimated increase of the Population by the Census of 1900.

For explanation see foot-note on next page.





The figures at the top of the perpendicular lines indicate, in whole numbers, the number of births during the year in every 1,000 persons. The spaces are fractional parts of one. For instance, the beavy borizontal line against Barrington, at the top of this diagram, reaches across nine-tenths of the space between the perpendicular lines 36 and 37. It shows the death rate of Barrington, in 1991, was thirty-six and nine-tenths in every 1.000 of the population.



BIRTHS, 1901.

The general statistics of births in Rhode Island, during the year 1901, derived from the returns sent to the office of the State Registrar, may be found on pages 2 to 8, inclusive, in Tables I, II, and III.

The whole number reported is 11,292, as before stated, and is 208 more than the number in 1900.

SEX OF THE CHILDREN.

Of the 11,292 children whose births were registered in 1901 there were 5,944 males and 5,348 females. This gives 111.1 males to each 100 females, or 526.4 males and 473.6 females in each 1,000 children.

The following table shows the number and sex, and the proportions of each sex, of the children born in Rhode Island, during the ten years 1854–1863, and in each of the last thirty-eight years:

TABLE XVII.

			Males to each 100	Per 1,000 Births.
Years.	Males.	Females.	Females.	Males. Females.
1854-1863	19,386	18,686	103.6, or	508.8 and 491.5
1864	1,949	1,942	100.3, or	500.9 and 499.1
1865	2,096	1.857	112.9. or	530.2 and 469.8
1866		2,356	108.0, or	519.4 and 480.6
867		2.464		518.7 and 481.8
1868	2.745	2.627		511.0 and 489.0
869	2.685	2.560	104.9, or	511.9 and 488.1
			105.6, or	
872	3.085	3.058	100.8, or	502.2 and 497.8
874	3.311	3.155		512.1 and 487.5
875	3.362	3.146	106.9. or	516.6 and 483.
			108.3, or	
			103.0, or	
			102.7. or	
			102.4, or	
			106.8, or	
			107.2, or	
			105.8. or	
			101.4. or	
			103.4, or	
			104.4, or	
			101.6, or	
			107.2, or	
			105.4, or	

Table XVII.—Concluded.

			Males to each	Per 1,000
			100	Births.
Years.	Males.	Females.	Females.	Males. Females.
1889	.,4,193	4,027	104.1, or	510.0 and 490.0
1890	4,351	4.199		508.8 and 491.2
1891	4,926	4,500	199.5, or	522.6 and 477.4
1892	4,765	4,505	105.8, or	514.1 and 485.9
1893	5,105	4,943	103.3, or	508.1 and 491.9
1894	5,129	4,856		513.7 and 486.3
1895	5,136	4,746		519.7 and 480.3
1896	5,461	5,289	103.3, or	508.0 and 492.0
1897	5,493	5,302	103.6, or	508.8 and 491.2
1898	5,443	5,287		507.3 and 492.7
1899	5,591	5,240	106.7, or	516.2 and 483.8
1960	5,625	5,459	103.0, or	507.5 and 492.5
1901	5.944	5.348		526.4 and 473.6

The average proportion for forty-eight years is 104.9 males to every 100 females. At the end of five years from birth the number of each sex is about equal, the males having a larger mortality during that period.

Proportion of the Sexes. Localities.

In Table II, on pages 6 and 7, will be found the number of children born in the different divisions of the State during the year 1901, together with the number of each sex.

The following table will give more concisely the whole number of children born, arranged according to sex and locality, and the proportion of male children to every 100 female children:

TABLE XVIII.

BIRTHS, 1901.	Bristol County.	Kent County.	Newport County.	Providence County Towns.	Washington County.	Newport City.	Central Falls.	Pawtucket.	Providence City.	Woonsocket.	Whole State.
Males	188	523	116	769	220	307	293	509	2,483	536	5,944
Females	142	448	90	772	229	269	223	510	2,213	452	5,348
Total	330	971	206	1,541	449	576	516	1,019	4,696	988	11,292
Males to each 100 females	132.4	116.7	128.9	99.6	96.1	114.1	131.4	99.8	112.2	118.6	111.1

Compared with the previous year, the increase in the proportion of male births in the whole State was 8.1 per cent.

The following table exhibits the proportions of births of the sexes for the past thirty-nine years in the larger divisions of the State and in the whole State:

BIRTHS.

TABLE XIX. Number of Males to each 100 Females.

BIRTIIS.	Bristol County.	Kent County.	Newport County.*	Providence County Towns.+	Providence City.	Washington County.	Whole State.
1863	120.0	98.4	97.0	101.8	111.4	108.7	105.8
1864	106.8	87.3	90.6	107.4	97.3	103.4	100.3
1865	119.3	118.2	108.8	118.8	113.8	88.1	112.9
1866	109.4	113.1	103.4	104.9	108.4	124.0	108.7
1867	115.5	98.3	117.8	106.3	104.5	120.4	107.7
1868	117.4	88.7	100.2	101.6	102.4	136.5	104.5
1869	115.7	116.7	102.7	98.0	107.5	120.6	104.9
1870	126.4	111.6	100.0	105.1	104.9	99.5	105.6
1871	131.8	97.9	132.5	100.8	95.2	113.3	102.8
1872	109.2	92.8	109.1	103.5	95.7	110.6	100.9
1873	129.2	113.0	117.9	104.5	109.0	104.7	108.6
1874	98.7 95.2	111.9 103.1	101.3 97.7	110.4	102.9	134.3	106.9
1875	142.1	104.4	108.5	104.5	106.8	103.7	108.3
1877	138.7	102.4	98.5	100.0	104.9	95.3	103.0
1878	120.5	120.6	94.8	101.5	106.8	78.8	102.7
1879	124.3	95.5	103.6	105.4	105.7	106.3	105.4
1880	117.2	110.5	113.5	102.4	107.6	95.4	106.1
1881	91.2	111.3	102.0	105.9	109.0	115.7	107.2
1882	94.7	110.2	112.5	103.1	106.5	105.7	105.8
1883	94.0	97.6	97.0	103.5	102.2	102.2	101.4
1884	105.0	111.7	92.9	102.5	105.8	99.0	103.4
1885	132.2	107.3	98.0	104.8	103.6	104.3	104.4
1886	120.0	81.7	102.6	106.7	105.0	121.7	104.6
1887	115.1	121.7	106.6	103.9	107.9	106.7	107.2
1888	98.1	105.1	105.0	103.4	107.4	110.2	105.4
1889	81.9	122.0	107.5	103.6	101.4	110.2	104.1
1890	96.5	113.0	106.8	108.5	98.3	97.4	103.6
1891	107.1	110.4	118.4	107.0	109.1	106.4	109.5 105.8
1892	120.0	102.1	102.4	110.7	100.0	98.5	105.8
1893	90.7	101.8	97.7	104.1	104.1 99.6	109.0 106.5	105.6
1894	103.4 118.4	102.4 116.3	121.1	105.0	109.6	115.6	103.0
1895 1896	96.5	95.4	100.8	102.4	105.8	108.5	103.3
1897	101.2	108.4	97.5	103.9	104.4	96.2	103.6
1898	96.2	104.4	98.9	101.6	105.2	102.3	102.9
1899	121.9	103.2	114.0	106.8	102.9	129.2	106 7
1900	114.9	100.9	113.0	99.3	104.5	102.0	103.0
	132.4	116.7	117.8	111.0	112.2	96.1	111.1

^{*}Including city of Newport, +Including cities of Central Falls, Pawtucket, and Woonsocket,

There will be found in the following summary, in the aggregate, the average number of males to each 100 females, born during the thirty-nine years from 1862–1901, in the different divisions of the State:

Bristol County	112.0 males to each 100 females.
Kent County.	108.6 males to each 100 females.
Newport County*	
Providence County Towns+	
Providence City	107.8 males to each 100 females.
Washington County	110.0 males to each 100 females.
Whole State	108.2 males to each 100 females.

BIRTHS AND SEASON.

Table II, on pages 6 and 7 of this report, gives the number of births occurring in the different months of the year, in the several divisions of the State.

According to this table, the greatest number of births in any one month, in 1901, occurred in August, and the largest in any quarter in the third.

The following table shows the total number of children born in the State of Rhode Island, according to the returns, in each quarter of each of the last six years; and also the aggregate number and the percentage of the aggregate of each quarter in forty-eight years, from 1854 to 1901, inclusive:

QUARTERS.	1901.	1900.	1899.	1898.	1897.	1896.	1854-1901,	inclusive.
		1000.					Number,	Per cent.
January-March	2,751	2,736	2,693	2,686	2,749	2,604	77,024	23.81
April-June	2,612	2,581	2,549	2,562	2,386	2,461	76,346	23.60
July-September	3,010	2,921	2,791	2,802	2,983	2,790	84,765	26.21
October-December	2,919	2,846	2,798	2,680	2,677	2,895	85,312	26.38
Whole Year	11,292	11,084	10,831	10,730	10,795	10,750	323,447	100.00

TABLE XX.

Table XX presents results showing that, according to the registration of forty-eight years, the average proportions of births to

the whole number of births in the different quarters of the year were as follows:

January—March
April—June
July-September
October—December

The proportions of births in Rhode Island, in the different quarters of the year, to the whole number of births in 1901, were as follows:

1.	January-March	24.4 per cent., or244 in every 1,00	00
2.	April—June	23.1 per cent., or	00
3.	July-September	26.7 per cent., or	00
4.	October-December	25.8 per cent., or	00
Fi	rst six months		г.
Se	cond six months		r.

BIRTHS. Sex and Season.

In Table II, on pages 6 and 7, will also be found the number of births of each sex by months, as they occurred in the different divisions of the State, during the year 1901. From it we ascertain the number of each of the sexes born during each quarter of the year, with their relative proportions, and also the aggregates and proportions of the same for the whole State.

The following table will present a summary of the quarterly periods, number of births, and proportions of the sexes, for the same year:

			Males to each	Per 1,000		
			100	each	quarter.	
	Males.	Females.	Females.	Males.	Females.	
1. January-March	1,450	1,301	111.4	527	473	
2. April-June	1,371	1,241	110.5	525	475	
3. July-September	1,579	1,431	110.3	525	475	
4. October-December	1,544	1,375	112.3	529	471	
Whole Year	5,944	5,348	111.1	526	474	

The following table shows the number of male children born to every 100 female children, in each quarter of the last three years; and also the proportion of births of male children to each 100 female children born during seven periods of five years each, from 1866 to 1900 inclusive:

TABLE XXI.

YEARS.	1901.	1900.	1899.					5 years, 1876 to 1880.		
First Quarter	111.4	107.4	106.2	103.8	104.6	104.3	105.8	106.0	101.5	106.6
Second Quarter	110.5	105.0	107.9	105.1	107.3	105.4	104.8	102.7	104.7	107.3
Third Quarter	110.3	97.9	106.9	102.8	108.6	104.6	105.1	107.1	104.8	106.0
Fourth Quarter	112.3	102.6	105.9	104.2	105.8	106.5	102.5	108.2	106.5	104.8
Total Average	111.1	103.0	106.7	103.9	106.5	105.2	104.5	106.2	104.2	106.2

The above table shows the variation of the proportions of the sexes in the different quarters in the different years, and seems to conclusively determine that season has very little, if any, influence in the causation of sex.

PARENTAGE.

By reference to Table I, page 4, in the division of births, there will be found the parentage of the children born in Rhode Island during the year 1901. It will be seen that of the whole number, 11,292, there were 3,426 of native, 5,629 foreign, and 2,237 of mixed parentage.

By mixed parentage is meant the children born of native fathers and foreign mothers, and of foreign fathers and native mothers.

Of native fathers and foreign mothers there were 1,063, and of foreign fathers and native mothers, 1,174.

The following table will show the number and parentage of the children born in the State and the variations of the same from year to year, in each of the last three years; and also the number and variations occurring in four periods of five years each, and two of ten years each, from 1858 to 1901, inclusive:

TABLE XXII.

PARENTAGE.	1901.	1900.	1899.	5 years, 1893 to 1897.		5 years, 1883 to 1887.	5 years, 1878 to 1882.	10 years, 1868 to 1877.	
Native father and mother	3,426	3,388	3,290	16,762	16,511	15,001	14,169	25,645	20,321
Foreign father and mother	5,629	5,499	5,495	25,084	18,737	15,245	13,562	26,356	19,665
Native father, foreign mother.	1,063	1,078	1,031	4,819	4,021	3,044	2,327	3,135	1,690
Foreign father, native mother.	1,174	1,119	1,015	4,795	4,037	3,378	2,887	4,077	1,696
Parentage not stated									293
Total	11,292	11,084	10,831	51,460	43,306	36,668	32,945	59,213	43,665

The following table of *percentages* will show, in a different and perhaps clearer way, the same changes that have occurred in the proportions of the births in the different classes of parentage during the last four years, and during forty-four years, from 1858 to 1901, inclusive, in four periods of five years each, and two of ten years:

TABLE XXIII.

PARENTAGE.	1901.	1900.	1899.	1898.				1878 to	10 years, 1868 to 1877.	
Nat. father and mother.	30.34	30.56	30,37	31.81	32.60	38.25	40.91	43.03	43.36	46.84
For, father and mother.	49.85	49.61	50.74	49 46	48.73	43.14	41.58	41.23	44.53	45.36
Nat. father, for. mother.	9.41	9.73	9.52	9.45	9.36	9.30	8.30	6.95	5.37	3.89
For. father, nat. mother.	10.40	10.10	9.37	9.28	9.31	9.31	9.21	8.79	6.74	3.91
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100 00	100.00	100.00

The registration of births, in 1901, is of interest as continuing to show, as usual, a smaller proportion of children born of native fathers than of foreign fathers. A considerable number of those recorded as native fathers were themselves children of foreign parents.

The percentage of children of mixed parentage was about the same, in 1901, as in the previous year.

The following table will present the percentages of children of native and of foreign-born fathers, and of native and foreign-born mothers, respectively, in each of the last four years, and in each of four periods of five years each and two of ten years each, from 1858 to 1901, inclusive:

TABLE XXIV.

CHILDREN WITH	1901.	1900.	1899.	1898.				5 years, 1878 to 1882.		
Native fathers	39.75	40.29	39.89	41.26	41.96	47.56	49.21	50 08	48.73	50.73
Foreign fathers	60.25	59.71	60.11	58.74	58.04	52.44	51.79	49.92	51.27	49.26
Native mothers	40.74	40 66	39.75	41.09	41.91	47.57	49.91	51.79	50.10	50.75
Foreign mothers	59.26	59.84	60.25	58.91	58.09	52.43	50.09	48.21	49.90	49.25

During 1901 the percentage of children born of foreign fathers was larger, and of foreign mothers was smaller, than in 1900.

The number of native fathers of children born, in 1901, was 2,314 less than the number of foreign fathers, and the number of native mothers was 2,092 less than of foreign.

BIRTHS OF COLORED CHILDREN.

The number of births of children of colored parentage reported for the year 1901 is 252. This number is 21 greater than in 1900, and also 51 greater than in 1899.

In regard to sex, the numbers and proportions were as follows, viz.: males, 125; females, 127; or 98.4 males to each 100 females.

As the number of colored persons in the State was, according to the census of 1900, 9,125,* the ratio of births in this class would be 27.6 per thousand, or 1 to each 36.2 colored inhabitants.

The following summary will show the changes that have occurred from year to year, in the proportions of the sexes of colored children born in Rhode Island, during the last twenty-six years:

j caza .		1		Males to
	Whole	•		each 100
Years.	Number.	Males.	Females.	Females.
1876-1885	1,762	849	913	93.0
1886	212	117	95	123.0
1887	211	111	100	111.0
1888	202	109	93	117.2
1889	194	87	107	81.3
	183			
	173			
	182			
	203			
	221			
	221			
1896	226	104	122	85.2
	206			
	216			
	201			
	231			
	252			

The following table will show the location, number, sex, etc., of colored births during 1901:

^{*} This does not include Chinese or Japanese.

Table XXV.

Showing Number, Sex, etc., of Colored Births, 1901.

0				
TOWNS AND CITIES.	Whole Number.	Males.	Females.	COUNTIES.
Warwick	3	1	2	Kent County 3
Jamestown	2		2	
Little Compton	1	1		
Newport City	43	25	18	
Tiverton	1		1	Newport County 47
CENTRAL FALLS	2	2		
Cranston	3	2	1	
East Providence	7	2	5	
Pawtucket	4	1	3	
Providence City	155	76	79	Providence County 171
Charlestown	2	1	1	
Hopkinton	1	1		
Narragansett	1		1	
North Kingstown	4	3	1	
South Kingstown	13	5	8	
Richmond	3	2	1	
Westerly	7	3	4	Washington County 31
WHOLE STATE	252	125	127	252

NUMBER OF CHILD OF THE MOTHER.

In the following table will be found the number of the child of the mother born during 1901; that is, how many of the children born were reported as the first, second, or third child, etc., of their respective mothers. The statistics on this subject begin with the year 1857, and the following table includes the children reported during the last six years, and also the total for forty-five years, 1857 to 1901, inclusive:

TABLE XXVI.

Number of the Child of the Mother.	1896.	1897.	1898.	1899.	1900.	1901.	45 years, 1857-1901.
First	2,574	2,438	2,393	2,426	2,640	2,851	75,788
Second	2,125	2,098	2,059	2,089	1,977	2,179	61,525
Third	1,672	1,687	1,631	1,635	1,616	1,589	47,706
Fourth	1,233	1,291	1,310	1,286	1,342	1,265	36,243
Fifth	918	927	982	942	978	972	27,044
Sixth	666	712	715	753	771	724	19,953
Seventh	488	499	532	544	531	528	14,314
Eighth	337	342	378	382	378	392	10,190
Ninth	259	260	231	238	289	247	6,904
Tenth	161	180	180	176	199	179	4,729
Eleventh	123	132	105	130	125	128	2,982
Twelfth	71	89	80	86	82	79	1,925
Thirteenth	40	50	54	58	63	53	1,149
Fourteenth	26	37	33	39	34	35	625
Fifteenth	12	14	10	12	24	16	324
Sixteenth	13	6	5	7	7	10	166
Seventeenth	4	4	8	4	2	4	90
Eighteenth	3				1	3	39
Nineteenth	3	2	3	1	1		26
Twentieth				1	1	1	11
Twenty-first				1		2	7
Twenty-second				1	1		4
Unstated	22	27	21	20	22	35	411
Total	10,750	10,795	10,730	10,831	11,084	11,292	312,155

There was an increase of 208 in the whole number of births in 1901 from the number in 1900.

There are varying differences in the proportions of all classes in the different years.

There was one return of birth in the twentieth, and two in the twenty-first classes.

The proportion of each class to the whole number will be shown by the following table, which gives the percentage of the children born in each of the last four years who were respectively the first, second, third, etc., children of the mothers; and which will also give the average percentage of each class of births in each of the last four years, and also in two periods of ten years, and two periods of five years, comprising the thirty-four years from 1868 to 1901, inclusive:

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NUMBER OF THE CHILD.	1901.	1900.	1899.	1898.		5 years, 1888 to 1892.		
First	25,25	23.82	22.40	22.30	23.78	25.20	23.7	25 2
Second	19.30	17.74	19.29	19,19	19.90	19.77	19.1	20.7
Third	14.07	14.58	15.09	15.20	15,29	14.94	15.5	15.5
Fourth	11.20	12.11	11.87	12.20	11.45	11.10	11.7	11.4
Fifth	8.61	8.82	8.70	9.15	8.52	8.23	8.8	8.4
First to Fifth	78.48	77.17	77.85	78.04	78.94	79.24	78.8	81.1
Sixth and over, and unstated	21.57	22.83	22.65	21.96	21.06	20.76	21.2	18.9
Total	100.00	100.00	100.00	100.00	100.00	100 00	100.00	100.00

TABLE XXVII.

Showing the Ages of the Fathers and Mothers of Children born in 1901.

Ages OF FATHERS.						A	GES O	F Мот	HERS.						
	14 years.	15 years.	16 years.	17 years.	18 years.	19 years.	20-25 years.	25-30 years.	30-35 years.	35-40 years.	40-45 years.	45-50 years.	50-55 years.	Unstated age.	No. of Fathers.
17 years			2		1										3
18 years			1	1	1		3								6
19 years		1	2	9	3	3	10								28
20-25 years		2	19	25	73	119	816	178	25	5					1,269
25-30 years		2	3	14	48	69	1,136	1,440	240	30	5				2.957
30-35 years				4	7	15	419	1,170	1,121	181	8	1			2,926
35-40 years				1	2	3	113	400	759	776	79	3			2,136
40-45 years						3	33	96	259	460	255	9	1		1,116
45-50 years						1	13	29	81	164	171	16			475
50-55 years							3	9	17	36	60	13			138
55-60 years							2	1	5	10	14	6			38
60-65 years								2	5	4	3				11
65-70 years									4						4
Unstated	1	3	5	9	14	11	52	22	2	4	1			38	162
No. of Mothers	1	8	32	63	149	224	2,600	3,347	2,515	1.670	396	48	1	38	11,292

The nativity of the mothers under 19-years was as follows:

The one at 14 years was American.

Of the eight at 15 years, 4 were American, 1 French-Canadian, 2 Portuguese, and 1 Armenian.

Of the thirty-two mothers at 16 years, 26 were American, 3 French-Canadian, 2 Italian, and 1 Russian.

Of the sixty-three mothers at 17 years, 39 were American, 1 English, 9 French-Canadian, 11 Italian, and 3 Portuguese.

Of the one hundred and forty-nine mothers at 18 years, 85 were American, 3 English, 31 French-Canadian, 1 Irish, 21 Italian, 2 Portuguese, 1 Nova Scotian, 1 Roumanian, 1 Syrian, and 3 Turkish.

The 11,292 children were divided as follows, to mothers of different age periods:

N	Number of Mothers.					
2						
Under twenty years	477	3.64				
Twenty, and under twenty-five	2,600	. 22.02				
Twenty-five, and under thirty	3,347	29.72				
Thirty, and under thirty-five	2,515	. 22.82				
Thirty-five, and under forty	1,670	15.42				
Forty, and under forty-five	596	5.46				
Forty-five and over	, 49	63				
Unstated age	38	29				
Total	11,292	100.00				

PLURALITY BIRTHS.

The general statistics in relation to plural births, in Rhode Island, may be found on page 8, Table III.

There were one hundred and twenty-seven cases during the year, all of which were twins, thus making the number of two hundred and fifty-four children.

Of the 254 children of plural birth, 130 were males and 124 were females.

The cases occurred in the different divisions of the State as follows:

Bristol county, 2; Kent county, 8; Newport county, 2; Newport city, 10; Providence county towns, 47; Providence city, 51; Washington county, 7.

The following exhibit will show the parentage of children of plural birth in Rhode Island, in 1901, and number of each:

^{*} Including Central Falls, Pawtucket, and Woonsocket.

Pa	rents l	ootii n	ative	Americans	31
Pa				Armeula	1
		**	* 6	Austria	2
	4.4	b 5	**	British America	3
	4.6	6.0	6.6	England	4
	**	4.4	6.6	France	1
		**	**	Canada (French)	8
	66		>4	Germany	1
	6.0		**	Ireland	8
	6.6	6.0	+ 6	Italy	5
	44	6.4	**	Polnud	2
	44	4.4	* 6	Portugal	3
	4+	4.4	**	Russia	3
	44	4.4	**		5
An	ericur	fathe	er and		2
					4
					3
					1
					2
					5
					1
					.)
,					_
					1
					1
					2
					1
					1
	.,				1
Rus	sian f	ather	and E	nglish mother	1
					1
Sw	edish f	ather	and A	american mother	1
,	\mathbf{The}	mo	nths	in which the plurality births occurred were as	3
fol	lows	s:		,	
Jan	uary .		15	April 9 July	-
	ruary			May 9 November	•
Mai	rch		12	June	J
			_		-
Fire	st Qua	rter	36	Second Quarter36 Third Quarter31 Fourth Quarter3	1

The general statistics of births, and number of cases reported in Rhode Island, during a period of forty-eight years, that is, from 1854 to 1891, inclusive, are as follows:

Second half of year..... 55

First half of year 72

319,411 cases of single birthsgiving	319,411	children.
3,393 cases of twin birthsgiving	6,786	children.
35 cases of triple birthsgiving	105	children.
1 case of quadruple birthsgiving	4	children.

Of the whole number of *cases* of child-birth (322,840) during the forty-eight years, one in 95 produced twins, one in 9,224 produced triplets, and one in 322,840 produced quadruplets.

Of the whole number of children born during the same period (326,306), ascertained from the reports, one in every 50 was a

twin; one in every 3,103 was a triplet.

Of the 3,429 cases of plurality births which have occurred in the State during the last forty-eight years, there were 1,250 cases in which both parents were natives; 1,687 cases in which both parents were foreign; 483 cases in which the parents were mixed, that is, one native and one foreign parent; and 9 in which the parentage was not stated.

The whole number of children born in plurality cases, during the forty-eight years, was 6,895, of whom 3,481 were males, and 3,410 were females; the sex of the remaining four was not given.

STILL-BORN.

The whole number of still-born children reported in Rhode Island, for the year 1901, was 469; this number is 95 more than for the year 1900.

The following are the numbers reported from the different divisions of the State:

Bristol County		4
Kent County		26
Newport County Towns		10
Newport City		31
Providence County Towns		65
Central Falls		31
Pawtucket	• • • • • • • • •	49
Providence City		
Woonsocket		28
Washington County		12
	-	—
Whole State		469

The following table will give the number in each town from which still-births were reported, with the sex, parentage, and color:

Table XXVIII.

Still-Born, 1901; Locality, Number, Sex, Parentage, and Color,

		SF	x.	PARE	NTAGE.	co	LOR.
TOWNS AND DIVISIONS OF THE STATE.	Total.	Males.	Females.	Native.	Foreign.	White.	Colored.
Bristol	2	1	1	2		2	
Warren	2		2		2	2	
BRISTOL COUNTY	4	1	3	2	2	4	
Coventry	5	2	3		5	5	
East Greenwich	4	1	3	2	2	4	
Warwick	17	9	s	10	7	17	
KENT COUNTY	26	12	14	12	14	26	
Middletown	1	1			1	1	
NEWPORT CITY	31	19	12	17	14	29	1 5
New Shoreham	1		1	1		1	
Portsmouth	3	1	. 2	1	2	3	
Tiverton	5	4	1	3	2	5	
NEWPORT COUNTY	41	25	16	22	19	39	:
Burriilville	8	2	6	5	3	8	
CENTRAL FALLS	31	11	20	12	19	31	
Cranston	9	3	6	8	1	9	
Cumberland	11	4	7	4	7	11	
East Providence	5	3	2	4	1	5	
Glocester	1		1	1		1	
Johnston	3	3		2	1	3	
Lincoln	20	16	4	3	17	20	
North Smithfield	2	2			2	5	
PAWTUCKET,	49	23	26	22	27	49	
PROVIDENCE CITY	216	126	90	92	124	210	•
Scituate	3	1	2	2	1	3	
WOONSOCKET	28	13	15	11	17	28	
Providence County	386	207	179	166	220	380	•
Hopkinton	1		1	1		1	
North Kingstown	5	. 3	2	5		5	
South Kingstown	3	1	5	3		2	1
Richmond	2	2		1	1	2	
Westerly	1		1		1	1	
WASHINGTON COUNTY	12	G	6	10	2	11	1
WHOLE STATE	469	251	218	212	257	460	9

SUMMARY OF SEX OF STILL-BORN.

The following table shows the number and sex of the still-born children whose births were reported in Rhode Island during each of the last five years, and also of a period of forty-eight years, extending from January 1, 1854, to December 31, 1901:

TABLE XXIX.

SEX.	1901.	1900.	1899.	1898,	1897.	Jan. 1, 1854, to Dec. 31, 1901.
Males	251 218	221 153	210 179	240 173	258 165	7,152 5,141
Total	469	374	389	413	423	12,093

The average proportions of the sexes of the still-born, for the period of forty-eight years, were as follows: In every 100 still-births there were about 58 males and 42 females.

Season of Still-Births.—During 1901 the proportions in relation to season, by percentage, were as follows:

1901.	1901.
First Quarter 25.16	Third Quarter
Second Quarter	Fourth Quarter
· ——	***************************************
Per cent. first half of the year 50.96	Last half of the year 49.04

The births of the still-born in the different months of the year, although somewhat variable in number, do not, as a rule, show great discrepancies.

PARENTAGE OF THE STILL-BORN.

Of the 469 still-born children reported in 1901 there were 212 of native and 257 of foreign parentage, reckoned by the nativity of the fathers, that is, the father's name given; and 206 of native and 263 of foreign, reckoned by the nativity of the mothers, name of father given or not given.

ILLEGITIMATES.

In the following table will be found the whole number of illegitimate births returned during 1901, with the sex, color, parentage, and locality of birth:

Table XXX.

Illegitimates, 1901.

•	ber.	SE	х.	COL	.ов.	PARENTAGE.	
TOWNS.	Whole Number.	Males.	Females.	White.	Black.	Native.	Foreign.
Bristol	1		t	1		1	
Warwick	3	1	2		3	3	
NEWPORT CITY	8	5	3	4	4	7	. 1
New Shoreham	1		1 :	1		1	
Portsmouth	3	1	2	3		2	1
Tiverton	3	- 2	1	2	1	3	
Cranston	13	4	9	It	2	9	4
Cumberland	2		9	2			2
PROVIDENCE CITY	93	43	50	83	10	59	34
Scituate	1		1	1		1	
WOONSOCKET	6	3	3	6		3	9
Charlestown	1		1	1		1	
North Kingstown	1	1			1	1	
South Kingstown	3	2	1		3	3	
Westerly	2	2		1	1	2	
Whole State	141	64	77	116	25	96	45

There were returns, during 1901, of 141 children of illegitimate parentage. The number is 8 less than that of the previous year.

Sex.—Of the 141, there were 64 males and 77 females.

Color.—Of the 141 illegitimates born during 1901, 116, or 82.3 per cent., were white; and 25, or 17.7 per cent., were colored.

Parentage.—Of the 141, 96, or 68.1 per cent. of all, were born of native mothers; and 45, or 31.9 per cent., of foreign born mothers. The colored illegitimates were all of native parentage. There were of the 116 white illegitimates, 71 born of native mothers, and 45 of foreign mothers.

The ages of the mothers were as follows:

	No. of		No. of
Age.	Mothers.	Age.	Mothers.
15	3	27	2
16	4	28	1
17	11	29	5
18	15	32	1
19	14	33	1
20	18	34	1
21	17	35	2
22	10	38	1
23	12	40	1
24	6		
25	11	Total	141
ae	5		

Sixty-eight of the illegitimates were born of indigent, pauper, or criminal mothers, in public, charitable, or penal institutions.

Fifty-five of these sixty-eight births occurred at the Lying-in-Hospital, in the city of Providence.

The proportion of illegitimates to the whole number of births was about one in every 80 cases, or about 13 in every 1,000.

MARRIAGES, 1901.

The number of marriages registered in Rhode Island, during the year 1901, was 3,846. This number is 413 more than in 1899, and 90 less than in 1900.

The general statistics of marriage, in 1901, in relation to season and number, in the different divisions of the State, may be found in Table IV, on the ninth page.

The statistics in relation to the proportion to population of persons married in 1901, in each of the towns and general divisions of the State, may be found in Tables XV and XVI, on pages 114 and 117.

The following table will present the number of marriages, and the ratio of marriage to population, in each year for a period of forty-two years, 1860 to 1901, inclusive:

Table XXX1.

YEARS.	Number Marriages.	Of Population, one Person Married in every	Persons Married per 1,000 of Popula- tion.	YEARS.	Number Marriages.	Of Population, one Person Married in every	Persons Married per 1,000 of Popula- tion,
1860	1,748	50.0	20.0	1882	2,634	52.5	19.0
1861	1,533	56.8	17.6	1883	2,611	54.4	18.3
1862	1,450	61.1	15.1	1884	2,558	58.1	17.2
1863	1,618	54.7	18.3	1885	2,488	61.3	16.3
1864	1,844	50.1	19.9	1886	2,750	56.5	17.7
1865	1,896	48.7	20.5	1887	2,839	55.8	18.0
1866	2,318	39.9	25.1	1888	3,022	53.5	18.7
1867	2,344	39.8	25.1	1889	3,029	57.8	17.3
1868	2,285	40.5	24.8	1890	3,195	54.1	18.4
1869	2,289	47.5	21.1	1891	3,320	53.5	18.5
1870	2,362	46.0	21.7	1892	3,502	52.4	19.1
1871	2,336	46.5	21.5	1893	3,544	53.6	18.7
1872	2,537	42.9	23.2	1894	3,271	57.4	17.4
1873	2,630	41.3	24.2	1895	3,497	55.0	18.2
1874	2,541	50.8	19.6	1896	3,327	59.2	17.0
1875	2,485	52.0	19.2	1897	3,137	64.3	15.6
1876	2,253	57.3	17.5	1898	3,278	63.2	15.8
1877	2,282	56.6	17.7	1899	3,433	61.6	16.2
1878	2,324	55.7	17.9	1900	3,936	54.4	18.4
1879	2,396	57.8	17.5	1901	3,846	56.9	17.6
1880	2,769	49.9	20.0				
1881	2,750	50.3	19.9	Annual ave	erage	53.1	19.1

SEASON.

The following table will show the number and percentage of marriages in Rhode Island, in each month and each quarter of the year 1901, together with the aggregate number and percentage in each quarter for forty-eight years, viz., from 1854 to 1901, inclusive:

TABLE XXXII.

MONTHS.	Number of marringes, each month, 1901.	Number of Mar- rlages each Quar- ter, 1901.	Percentage of each Quarter to total Marriages, 1901.	Number of Mar- riages per Quarter, 48 yrs., 1854-1901,	Percentage each Quar- ter, 48 years.
January	339]				
February	287	1st Quarter 751	19.52	1st Quarter25,664	21.25
March	125				
April	392				
May	254	2d Quarter1,163	30.24	2d Quarter31,529	26.10
June	517				
July	294				
August	264	3d Quarter 901	23.43	3d Quarter28,282	23.42
September	343)				
October	375)				
November	444	4th Quarter1,031	26.81	4th Quarter 35,305	29.23
December	212				
Total		3,846	100.00	*120,800	100.00

The largest number of marriages in any one month, during 1901, occurred in the month of June. For thirty-eight years previous to 1892 the greatest number of marriages was in the month of November. Since then, with the exception of in 1895 and 1899, the greatest number of marriages has been in the month of June. The rule has been as follows: the largest proportion in the last quarter; the next largest in the second quarter; followed by the third quarter; and, finally, the first quarter having the smallest proportion of any. In 1893, 1894, 1896, 1900, and 1901 the largest proportion was in the second quarter.

During 1901 the proportions in the different quarters, from the largest to the smallest, were as follows: second quarter, 30.24 per cent.; fourth quarter, 26.81 per cent.; third quarter, 23.43 per cent.; first quarter, 19.52 per cent.

NATIVITY OF PERSONS MARRIED.

The following table shows the *number* of marriages, according to the nativities of the parties, for each of the last four years, and

^{*} Including 20, date not given, recorded previous to 1860.

also for the aggregate of twenty-five years, from 1858 to 1882, inclusive; of five years, from 1883 to 1887, inclusive; of five years, from 1888 to 1892, inclusive; and for five years, from 1893 to 1897, inclusive:

TABLE XXXIII.

BIRTH-PLACE.	1901.	1900.	1899.	1898.	5 years, 1893 to 1897. Total.	5 years, 1888 to 1892. Total.	5 years, 1883 to 1887. Total.	25 years, 1858 to 1882. Total.
United States	1,769	1,800	1,658	1,522	7,846	7,813	7,157	33,553
Foreign countries	1,175	1,156	972	991	5,318	4,973	3,601	13,753
Native groom, foreign bride	457	499	411	402	1,785	1,637	1,323	3,488
Foreign groom, native bride	445	481	392	363	1,827	1,645	1,165	3,876
Not stated	,							64
Total	3,846	3,936	3,433	3,278	16,776	16,068	13,246	54,734

It will be understood that in the above enumerations the parent nativity of the persons married is not considered, but the country where born.

Parties born in the United States, although children of foreign born parents, are reckoned as natives.

In the following table are given the *percentages* by birth, of native, foreign, and mixed marriages, in each of the last four years, and in the aggregate of five years, 1893 to 1897, inclusive; of five years, 1888 to 1892, inclusive; of five years, 1883 to 1887, inclusive; and twenty-five years, 1858 to 1882, inclusive:

TABLE XXXIV.

BIRTH-PLACE.	1901.	1900.	1899.	1898.	5 years, 1893-1897.	5 years, 1888-1892.	5 years, 1883-1887.	25 years. 1858-1882.
United States	46.00	45.73	48.30	46.43	46.81	48.62	54.02	61.30
Foreign countries	30.55	29.37	28.31	30.23	31.65	30.95	27.19	25.13
Mixed nativity	23.45	24.90	23.39	23.34	21.54	20.43	18.79	13.57
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

It will be of some interest to notice that by the exhibit of the two preceding tables it is shown that, although the marriages of the native born (whether the issue of foreign born parents or natives) have, as a rule, *increased in numbers*, they have also steadily *decreased in proportion*, with two or three exceptional years, that is, to the whole number of marriages; while the marriages of the class of the exclusively foreign born have been, for the past thirty years, gradually increasing in proportion.

Denominational.—The 3,846 marriages in 1901 were performed by clergymen of various denominations, or by civil authority, as follows:

DENOMINATIONAL.

Roman Catholic	Advent 12
Baptist 531	Advent Christian 10
Protestant Episcopal 443	Evangelical 9
Congregational	Independent 7
Methodist 232	Primitive Methodist 5
Free Baptist 121	Armenian 5
Universalist	New Jerusalem 3
Lutheran 56	Second Advent 2
Hebrew 56	Friends' Ceremony 2
Christlan 52	Latter Day Saints 2
Presbyterlan 40	Church of Emanuel
Justices of the Supreme Court 33	Pentecostal 1
United Presbyterian	Denomination not stated
Seventh Day Baptist	
Unitarian 16	Total

Ages of the Married.

In the following table the varying ages of persons married during 1901 are presented:

TABLE XXXV.

			A	GES	of 1	BRI	DE	3.					ns.
AGES OF GROOMS.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	Number of Grooms.
Under 20	51	- 28	2		1						:.		82
20 to 25	387	814	135	17	2	٠.		1					1,356
25 to 30	132	575	429	55	17	2	1						1,211
30 to 35	29	157	209	114	27	10	1						547
35 to 40	8	51	79	71	47	18	3	1					278
40 to 45	1	9	28	38	32	22	11	1			٠.		142
45 to 50		.8	13	13	28	13	12	4					91
50 to 55	1		4	10	4	14	13	9	2				57
55 to 60	1	2		4	4	5	5	2	2	3			28
60 to 65			2		1	1	6	9	5	3	4		31
65 to 70		1	1	1		1	1		3	3	2	1	14
70 to 75			1				1		1	2		1	6
75 to 80							1	1		1			3
Number of Brides	610	1,645	903	323	163	86	55	28	13	12	6	2	3,846

The extreme discrepancies in the ages of some couples married in 1901 were not so frequent as in some previous years.

The same results in 1901, in relation to numbers in the different age periods, may be presented in a different and perhaps clearer way as follows:

TABLE XXXVI.

1901.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.
Males	82	1,356	1,211	547	278	142	91	57	28	31	14	6	3
Females	610	1,645	903	323	163	86	55	28	13	12	6	2	
Total persons	692	3,001	2,114	870	441	238	146	85	41	43	20	8	3

The whole number of persons in each division of ages, of both sexes, married in Rhode Island in each of the last thirty-six years, that is, from 1866 to 1901, inclusive, is presented in the following table:

TABLE XXXVII.

1866																	-
1866 0.96 1.886 1.104 416 211 148 91 48 37 18 18 5 3 1 9 1868 644 1,833 1,060 432 219 133 82 61 30 29 11 8 4 32 1869 642 1,814 1,051 468 227 134 79 46 35 15 11 2 3 2 4 1870 744 1,883 1,084 415 216 159 86 64 26 24 12 3 2 6 1877 786 2,073 1,114 1,148 37 181 81 81 8 9 1 6 1873 762 2,177 1,156 507 253 150 101 60 35 24 12 6 1	YEARS.		to	5	to	5	to	3	2	ţ	to	to	to	3	2	2	Not stated.
1868	1866	693	1,931	1,025	419	213	127	81	59	25	21	12	1				23
1869	1867	696	1,886	1,104	416	211	148	91	48	37	18	18	5	3	1		9
1870. 744 1,883 1,084 415 216 159 86 64 26 24 12 3 2 6 1871. 697 1,914 1,118 892 228 115 73 56 35 22 6 7 3 6 1872. 786 2,073 1,182 434 237 131 81 61 43 21 13 6 1 5 1873. 762 2,177 1,156 507 253 140 87 68 35 24 12 6 6 27 1874. 770 1,992 1,179 459 268 159 101 60 32 29 13 4 1 6 1875. 681 2,052 1,101 450 224 154 80 53 27 19 12 1 2 9 1877. 681 39 162 74 49	1868	644	1,835	1,050	432	219	133	83	61	30	29	11	8	4			32
1871 097 1.914 1.118 392 228 115 73 56 35 22 6 7 8 6 1872 786 2,073 1,182 434 237 131 81 61 42 21 13 6 1 5 1873 762 2,177 1,156 507 253 140 87 68 35 24 12 6 6 27 1874 770 1,992 1,179 459 268 159 101 52 36 39 8 9 1 6 1876 681 2,058 1,108 475 252 150 101 60 32 29 13 4 1 6 1877 631 1,745 1,118 450 244 125 92 52 46 14 15 11 2 1 9 1878 638 1,579 1,156 481 1272	1869	642	1,814	1,051	468	227	134	79	46	35	15	11	2	3	2		49
1872. 786 2,073 1,182 434 237 131 81 61 43 21 13 6 1 5 1873. 762 2,177 1,156 507 233 140 87 68 35 24 12 6 6 27 1874. 770 1,992 1,179 499 268 150 101 62 30 39 8 9 1 9 1875. 681 2,058 1,108 475 252 150 101 60 32 29 13 4 1 6 1876. 631 1,745 1,118 459 24 125 92 52 46 14 15 11 2 1 9 1877. 631 1,879 1,156 481 127 123 78 56 39 26 18 9 2 2 1 11 1880. 688 2,901 1,262 556	1870	744	1,883	1,084	415	216	159	86	64	26	24	12	3	2			6
1873. 762 2,177 1,156 507 253 140 87 68 35 24 12 6 6 27 1874. 770 1,992 1,179 459 268 159 101 52 36 39 8 9 1 9 1875. 681 2,058 1,108 475 252 150 101 60 32 29 13 4 1 6 1876. 691 1,741 1,041 430 224 154 80 53 27 19 12 1 2 9 1877. 631 1,745 1,118 459 244 125 92 52 46 14 15 11 2 1 9 1878. 639 1,879 1,156 481 272 123 78 56 39 26 18 9 2 2 1 11 1880. 589 2,298 1,410	1871	697	1,914	1,118	392	228	115	73	- 56	35	22	6	7	3			6
1874 770 1,992 1,179 459 268 159 101 52 36 39 8 9 1 9 1875 681 2,058 1,108 475 252 150 101 60 32 29 13 4 1 6 1876 691 1,741 1,041 450 224 154 80 53 27 19 12 1 2 9 1877 631 1,745 1,118 459 244 125 92 52 46 14 15 11 2 1 9 1879 639 1,879 1,156 481 272 123 78 56 39 26 18 9 2 2 1 11 1 2 1880 688 2,301 1,262 556 391 163 91 65 33 27 15 3 3 1 <td>1872</td> <td>786</td> <td>2,073</td> <td>1,182</td> <td>434</td> <td>237</td> <td>131</td> <td>81</td> <td>61</td> <td>43</td> <td>21</td> <td>13</td> <td>6</td> <td>1</td> <td></td> <td></td> <td>5</td>	1872	786	2,073	1,182	434	237	131	81	61	43	21	13	6	1			5
1875. 681 2,058 1,108 475 252 150 101 60 32 29 13 4 1 6 1876. 691 1,741 1,041 450 224 154 80 53 27 19 12 1 2 9 1877. 631 1,745 1,118 459 244 125 92 52 46 14 15 11 2 1 9 1878. 618 1,832 1,1262 556 39 162 74 49 39 20 17 2 4 8 1879. 639 1,879 1,156 481 272 123 78 56 39 26 18 9 2 2 1 11 1880. 688 2,391 1,262 556 329 163 31 16 5 1 1 2 1881. 599 2,298 1,410 547 298	1873	762	2,177	1,156	507	253	140	87	68	35	24	12	6	6			27
1876. 691 1,741 1,041 450 224 154 80 53 27 19 12 1 2 9 1877. 631 1,745 1,118 459 244 125 92 52 46 14 15 11 2 1 9 1878. 618 1,832 1,123 441 259 162 74 49 39 20 17 2 4 8 1879. 639 1,879 1,156 481 272 123 78 56 39 26 18 9 2 2 1 11 1880. 688 2,301 1,262 556 329 163 91 65 33 27 15 3 3 1 1 2 1881. 599 2,298 1,410 547 298 187 107 54 34 31 16 5 1 1 2 1882. 498 2,125 <t< td=""><td>1874</td><td>770</td><td>1,992</td><td>1,179</td><td>459</td><td>268</td><td>159</td><td>101</td><td>52</td><td>36</td><td>39</td><td>8</td><td>9</td><td>1</td><td></td><td></td><td>9</td></t<>	1874	770	1,992	1,179	459	268	159	101	52	36	39	8	9	1			9
1877. 631 1,745 1,118 459 244 125 92 52 46 14 15 11 2 1 9 1878. 618 1,832 1,123 441 259 162 74 49 39 20 17 2 4 8 1879. 639 1,873 1,156 481 272 123 78 56 39 26 18 9 2 2 1 11 1880. 688 2,301 1,262 556 329 163 91 65 33 27 15 3 1 1 1881. 599 2,298 1,410 547 298 187 107 54 34 31 16 5 1 1 2 1882. 498 2,125 1,377 563 301 161 102 57 36 27 11 5 3 2 1888 36 3 <td< td=""><td>1875</td><td>681</td><td>2,058</td><td>1,108</td><td>475</td><td>252</td><td>150</td><td>101</td><td>60</td><td>32</td><td>29</td><td>13</td><td>4</td><td>1</td><td></td><td></td><td>6</td></td<>	1875	681	2,058	1,108	475	252	150	101	60	32	29	13	4	1			6
1878. 618 1,832 1,123 441 259 162 74 49 39 20 17 2 4 8 1879. 639 1,873 1,156 481 272 123 78 56 39 26 18 9 2 2 1 11 1880. 688 2,301 1,262 556 329 163 91 65 33 27 15 3 3 1 1 1881. 599 2,298 1,410 547 298 187 107 54 34 31 16 5 1 1 2 1882. 498 2,125 1,377 563 301 161 102 57 36 27 11 5 3 2 1883. 497 2,108 1,370 486 319 183 115 73 31 20 14 3 2 1 1884.	1876	691	1,741	1,041	450	224	154	80	53	27	19	12	1	2			9
1879. 639 1.879 1.156 481 272 123 78 56 39 26 18 9 2 2 1 11 1880. 688 2.301 1.262 556 329 163 91 65 33 27 15 3 3 1 1 1881. 599 2.208 1.410 547 298 187 107 54 34 31 16 5 1 1 2 1882. 498 2.125 1.377 563 301 161 102 57 36 27 11 5 3 2 1883. 497 2.108 1.370 486 319 183 115 73 31 20 14 3 2 1 1884. 484 2.027 1.289 569 307 152 114 64 48 30 23 6 3 1885. 582	1877	631	1,745	1,118	459	244	125	92	52	46	14	15	11	2	1		9
1880. 688 2,301 1,262 556 329 163 91 65 33 27 15 3 3 1 1 1881. 599 2,298 1,410 547 298 187 107 54 34 31 16 5 1 1 2 1882. 498 2,125 1,377 563 301 161 102 57 36 27 11 5 3 2 1883. 497 2,108 1,370 486 319 183 115 73 31 20 14 3 2 1 1884. 484 2,027 1,289 569 307 152 114 64 48 30 23 6 3 1885. 438 1,973 1,296 540 309 163 102 57 45 27 13 7 3 1886. </td <td>1878</td> <td>618</td> <td>1,832</td> <td>1,123</td> <td>441</td> <td>259</td> <td>162</td> <td>74</td> <td>49</td> <td>39</td> <td>20</td> <td>17</td> <td>2</td> <td>4</td> <td></td> <td></td> <td>8</td>	1878	618	1,832	1,123	441	259	162	74	49	39	20	17	2	4			8
1881. 509 2.298 1,410 547 298 187 107 54 34 31 16 5 1 1 2 1882. 498 2,125 1,377 563 301 161 102 57 36 27 11 5 3 2 1883. 497 2,108 1,370 486 319 183 115 73 31 20 14 3 2 1 1884. 484 2,027 1,289 569 307 152 114 64 48 30 23 6 3 1885. 438 1,973 1,296 540 309 163 102 57 45 27 13 7 3 1886. 505 2,133 1,552 607 294 162 114 49 39 23 19 7 3 1889 1	1879	639	1.879	1,156	481	272	123	78	56	39	26	18	9	2	2	1	11
1882. 498 2,125 1,377 563 301 161 102 57 36 27 11 5 3 2 1883. 497 2,108 1,370 486 319 183 115 73 31 20 14 3 2 1 1884. 484 2,027 1,289 569 307 152 114 64 48 30 23 6 3 1885. 438 1,973 1,296 540 309 163 102 57 45 27 13 7 3 1886. 505 2,133 1,552 603 283 174 103 73 24 26 18 5 1 1887. 501 2,308 1,552 607 294 162 114 49 39 23 19 7 3 1889 11 <t< td=""><td>1880</td><td>688</td><td>2,301</td><td>1,262</td><td>556</td><td>329</td><td>163</td><td>91</td><td>65</td><td>33</td><td>27</td><td>15</td><td>3</td><td>3</td><td>1</td><td></td><td>1</td></t<>	1880	688	2,301	1,262	556	329	163	91	65	33	27	15	3	3	1		1
1883. 497 2,108 1,370 486 319 183 115 73 31 20 14 3 2 1 </td <td>1881</td> <td>599</td> <td>2,298</td> <td>1,410</td> <td>547</td> <td>298</td> <td>187</td> <td>107</td> <td>54</td> <td>34</td> <td>31</td> <td>16</td> <td>5</td> <td>1</td> <td>1</td> <td></td> <td>2</td>	1881	599	2,298	1,410	547	298	187	107	54	34	31	16	5	1	1		2
1884 484 2,027 1,289 569 307 152 114 64 48 30 23 6 3 .	1882	498	2,125	1,377	563	301	161	102	57	36	27	11	5	3	2		
1885. 438 1,973 1,296 540 309 163 102 57 45 27 13 7 3 1 2 1886. 505 2,133 1.552 603 283 174 103 73 24 26 18 5 1 1887. 501 2,308 1,552 607 294 162 114 49 39 23 19 7 3 1888. 582 2,427 1,608 640 330 207 105 60 36 17 23 7 2 1889. 543 2,463 1,492 712 379 189 121 66 45 8 16 9 2 1890. 596 2,693 1,632 673 320 206 102 69 41 29 20 7 2 1891. 685 3,141	1883	497	2,108	1,370	486	319	183	115	73	31	20	14	3	2	1		
1886. 505 2,133 1,552 603 283 174 103 73 24 26 18 5 1	1884	484	2,027	1,289	569	307	152	114	64	48	30	23	6	3			
1887. 501 2,808 1,552 607 294 162 114 49 39 23 19 7 3	1885	438	1,973	1,296	540	309	163	102	57	45	27	13	7	3		1	2
1888. 582 2.427 1,608 640 330 207 105 60 36 17 23 7 2	1886	505	2,133	1,552	603	283	174	103	73	24	26	18	5	1			
1889. 543 2,463 1,492 712 379 182 121 66 45 8 16 9 2 1890. 596 2,693 1,632 673 320 206 102 69 41 29 20 7 2 1891. 685 3,141 1,442 635 315 158 115 64 35 21 17 6 1 1 4 1892. 668 3,011 1,729 732 389 201 122 60 35 30 14 4 3 6 1893. 676 2,777 1,869 776 436 237 133 79 47 39 9 8 1 1 1894. 613 2,760 1,613 680 375 183 150 74 39 29 17 3 5 1 115 189 <td>1887</td> <td>501</td> <td>2,308</td> <td>1,552</td> <td>607</td> <td>294</td> <td>162</td> <td>114</td> <td>49</td> <td>39</td> <td>23</td> <td>19</td> <td>7</td> <td>3</td> <td></td> <td></td> <td></td>	1887	501	2,308	1,552	607	294	162	114	49	39	23	19	7	3			
1890. 596 2,693 1,632 673 320 206 102 69 41 29 20 7 2	1888	582	2,427	1,608	640	330	207	105	60	36	17	23	7	2			
1891. 685 3,141 1,442 635 315 158 115 64 35 21 17 6 1 1 4 1892. 668 3,011 1,729 732 389 201 122 60 35 30 14 4 3 6 1893. 676 2,777 1,869 776 436 237 133 79 47 39 9 8 1 1 6 1894. 613 2,760 1,613 680 375 183 150 74 39 29 17 3 5 1 1 1 1 1 1 1 1 1 1 1 <	1889	543	2,463	1,492	712	379	182	121	66	45	8	16	9		2		
1892 668 3,011 1,729 732 389 201 122 60 35 30 14 4 3 6 1893 676 2,777 1,869 776 436 237 133 79 47 39 9 8 1 1 1894 613 2,760 1,613 680 375 183 150 74 39 29 17 3 5 1 1895 607 2,763 1,887 767 417 227 142 83 49 22 12 13 4 1 1896 617 2,647 1,841 713 352 204 124 61 45 24 18 5 3 1897 1898 22 15 9 3 1 1898 22 15 9 3 1	1890	596	2,693	1,632	673	320	206	102	69	41	29	20	7	2			
1893 676 2,777 1,869 776 436 237 133 79 47 39 9 8 1 1 1894 613 2,760 1,613 680 375 183 150 74 39 29 17 3 5 1 1895 607 2,763 1,887 767 417 227 142 83 49 22 12 13 4 1 1896 617 2,647 1,841 713 352 204 124 61 45 24 18 5 3 1897 1,746 659 359 184 125 81 38 22 15 9 3 1 1898 579 2,639 1,795 675 394 187 127 82 38 20 10 7 3 149 5	1891	685	3,141	1,442	635	315	158	115	64	35	21	17	6	1	1		4
1894. 613 2,760 1,613 680 375 183 150 74 39 29 17 3 5 1 1895. 607 2,763 1,887 767 417 227 142 83 49 22 12 13 4 1 1896. 617 2,647 1,841 713 352 204 124 61 45 24 18 5 3 1897. 542 2,490 1,746 659 359 184 125 81 38 22 15 9 3 1 1898. 579 2,639 1,795 675 394 187 127 82 38 20 10 7 3 1899. 587 2,720 1,871 810 361 201 149 59 54 31 11 8 3 1 1900. 729 2,982 2,155 935	1892	668	3,011	1,729	732	389	201	122	60	35	30	14	4	3			6
1895. 607 2,763 1,887 767 417 227 142 83 49 22 12 13 4 1 1896. 617 2,647 1,841 713 352 204 124 61 45 24 18 5 3 1897. 542 2,490 1,746 659 359 184 125 81 38 22 15 9 3 1 1898. 579 2,639 1,795 675 394 187 127 82 38 20 10 7 3 1899. 587 2,720 1,871 810 361 201 149 59 54 31 11 8 3 1 1900. 729 2,982 2,155 935 444 240 155 103 74 24 24 6 1	1893	676	2,777	1,869	776	436	237	133	79	47	39	9	8		1	1	
1896. 617 2,647 1,841 713 352 204 124 61 45 24 18 5 3 1897. 542 2,490 1,746 659 359 184 125 81 38 22 15 9 3 1 1898. 579 2,639 1,795 675 394 187 127 82 38 20 10 7 3 1899. 587 2,720 1,871 810 361 201 149 59 54 31 11 8 3 1 1900. 729 2,982 2,155 935 444 240 155 103 74 24 24 6 1	1894	613	2,760	1,613	680	375	183	150	74	39	29	17	3	5	1		
1897. 542 2,490 1,746 659 359 184 125 81 38 22 15 9 3 1 1898. 579 2,639 1,795 675 394 187 127 82 38 20 10 7 3 1899. 587 2,720 1,871 810 361 201 149 59 54 31 11 8 3 1 1900. 729 2,982 2,155 935 444 240 155 103 74 24 24 6 1	1895	607	2,763	1,887	767	417	227	142	83	49	22	12	13	4	1		
1898. 579 2,639 1,795 675 394 187 127 82 38 20 10 7 3 1899. 587 2,720 1,871 810 361 201 149 59 54 31 11 8 3 1 1900. 729 2,982 2,155 935 444 240 155 103 74 24 24 6 1	1896	617	2,647	1,841	713	352	204	124	61	45	24	18	5	3			
1899	1897	542	2,490	1,746	659	359	184	125	81	38	22	15	9	3	1		
1899	1898	579	2,639	1,795	675	394	187	127	82	38	20	10	7	3			
1900	1899	587			1	361	201	149	59	54	31	11	8	3	1		
1901	1900	729	2,982	1	935	444	240	155	103	74	24	24	6	1			
	1901	692	3,001	2,114	870	441	228	146	85	41	43	20	8	3			

In the following table will be found the number and proportion of the persons married under 20 years of age, both sexes, in nine periods of five years each, from 1856 to 1900, inclusive; for the whole period of forty-five years, and in 1898, 1899, 1900, and 1901

TABLE XXXVIII.

5-YEAR PERIODS.	Total number of persons married.	Persons married under 20.	Percentage under 20.
1856-1860	15,838	3,294	20.79
1861-1865	16,682	2,406	14.45
1866-1870	23,196	3,419	14.79
1871-1875	25,058	3,696	14.73
1876-1880	24,048	3,267	13.50
1881-1885	26,082	2,516	9.63
1886-1890	29,670	2,727	9.19
1891-1895	34,268	3,249	9.48
1896-1900	34,226	3,054	8.99
45 years, 1856-1900	229,068	27,628	12.06
1898	6,556	579	8.88
1899	6.866	587	8.69
1900	7,876	729	9.26
1901	7,692	692	9.00

PROPORTION TO SEX.

Table exhibiting the percentages of grooms in each division of ages, in each of the last forty-two years:

TABLE XXXIX.

	YEARS.	Under 20.	20 to 25.	25 to 30.	30 to 40.	40 to 50.	50 and over.	Total.
	1860	5.0	42.8	26.9	16.3	5.7	3.3	100.0
	1861	4.6	44.5	25.4	15.5	5.8	4.2	100.0
	1862	4.2	37.8	27.9	18.3	5.9	5.9	100.0
	1863	3.5	38.0	29.6	17.2	5.8	5.9	100.0
1	1864	4.3	38.8	27.3	17.9	7.4	4.3	100.0
ļ	1865	3.5	37.0	28.4	18.9	7.5	4.7	100.0
1	1866	5.3	40.9	27.0	16.4	6.3	4.1	100.0
	1867	4.3	40.1	27.9	16.8	6.8	4.1	100.0
	1868	4.1	39.9	28.2	17.1	6.1	4.6	100.0
	1869	4.3	39.6	27.7	18.5	6.1	3.8	100.0
	1870	4.8	40.4	28.1	16.0	6.4	4.3	100.0
	1871	5.3	40.1	28.9	16.5	4.9	4.3	100.0
1	1872	4.3	41.3	28.2	16.6	5.2	4.4	100.0
	1873	3.8	42.4	26.7	17.0	6.0	4.1	100.0
	1874	4.1	40.4	27.2	17.5	6.4	4.4	100.0
	1875	3.5	40.9	27.8	17.6	6.1	4.2	100.0
1	1876	5.1	37.5	28.6	17.9	5.6	4.3	100.0
	1877	4.3	36.0	30.2	18.7	5.9	6.9	100.0
	1878	3.9	38.5	29.0	18.0	6.3	4.3	100.0
	1879	3.9	37.8	28.8	19.3	5.4	4.8	100.
J	1880	3.6	38.9	27.5	19.9	5.8	4.3	100.0
	1881	2.8	37.2	29.7	19.5	6.8	4.0	100.0
	1882	2.2	36.0	31.4	20.0	6.1	4.3	100.0
7	1883	2.9	36.2	31.7	17.7	7.2	4.3	100.0
	1884	2.5	36.2	29.1	21.1	6.2	5.0	100.0
1	1885	2.6	34.7	30.2	20.9	6.8	4.8	100.0
	1886	2.5	35.2	31.9	19.6	6.8	4.0	100.0
ı	1887	1.7	37.1	31.6	19.6	6.2	3.8	100.0
	1888	2.8	36.1	31.1	19.8	6.5	3.7	100.0
	1889	2.3	37.6	27.8	21.3	6.6	4.4	100.0
	1890	3.3	36.9	30.8	18.9	6.1	4.0	100.0
ł	1891	3.2	44.7	26.4	17.2	5.2	3.3	100.0
	1892	2.3	40.1	29.3	19.0	6.1	3.2	100.0
	1893	2.9	35.3	30.7	21.0	6.3	3.8	100.0
	1894	3.0	37.4	29.3	19.9	6.8	3.6	100.0
	1895	2.2	36.0	30.6	21.0	6.3	3.9	100.0
	1896	2.1	35.5	33.2	19.6	6.1	3.5	100.0
	1897	2.3	35.5	32.6	19.3	6.3	4.0	100.0
	1898	2.4 0	36.4	31.8	19.8	6.1	3.5	100.0
	1899	2.3	35.0	30.9	21.6	6.6	3.6	100.0
	1900	2.4	33.6	32.0	21.6	6.2	4.2	100.0
l	1901	2.1	35.3	31.4	21.5	6.1	3.6	100.0

Table exhibiting the percentages of BRIDES in each division of ages, in each of the last forty-two years:

TABLE XL.

	YEARS.	Under 20.	20. to 25.	25_to 30.	30 to 40.	40 to 50.	50 and over.	Total.
1	1860	25.8	44.1	17.0	9.1	2.6	1.4	100.0
	1861	29.6	42.0	15.2	7.8	4.1	1.3	100.0
- }	1862	24.9	41.8	16.7	11.8	4.1	1.2	100.0
i	1863	24.9	42.6	16.9	9.8	4.1	1.7	100.0
	1864	24.2	43.4	17.8	10.3	2.9	1.4	100.0
	1865	22.6	43.3	19.1	11.0	3.5	1.5	100.0
	1866	24.7	42.9	17.4	11.0	2.7	1.3	100.0
	1867	25.4	40.5	19.3	10.0	3.4	1.4	100.0
	1868	24.4	40.9	18.1	11.6	3.3	1.7	100.0
	1869	24.1	40.5	18.7	12.1	3.4	1.2	100.0
	1870	26.8	39.4	17.9	10.8	3.9	1.2	100.0
į	1871	24.6	41.9	19.1	10.1	3.1	1.2	100.
	1872	26.7	40.5	18.4	9.9	2.2	1.3	100.
1	1873	25.3	40.8	17.5	12.0	2.7	1.7	100.
-	1874	26.3	38.1	19.3	11.1	3.9	1.3	100.
1	1875	23.9	42.1	16.8	11.8	4.0	1.4	100.
	1876	25.6	39.8	17.6	12.0	3.7	1.3	100.
1	1877	23.4	40.4	18.8	12.1	3.6	1.7	100.
	1878	22.7	40.4	19.3	12.2	8.8	1.6	100.
H	1879	22.8	40.7	19.4	12.1	3.0	2.0	100.
	1880	21.1	44.2	18.0	12.0	3.3	1.4	100.
1	1881	19.0	43.0	21.5	11.2	3.8	1.5	100.
	1882	16.7	41.8	20.9	12.6	3.9	1.1	100.
1	1883	16.2	44.2	20.6	13.2	4.3	1.5	100.
1	1884	16.4	43.0	21.3	13.2	4.2	1.9	100.
	1885	14.9	44.6	21.8	13.2	3.8	1.7	100.
	1886	15.8	42.4	24.5	12.5	3.3	1.5	100.
1	1887	15.9	44.1	22.8	12.1	3.5	1.6	100.
1	1888	16.4	44.3	22.1	12.4	3.7	1.1	100.
ł	1889	15.1	43.7	21.5	14.7	3.4	1.6	100.
-	1890	15.4	47.3	20.4	12.0	3.6	1.3	100.
1	1891	17.4	49.9	17.0	11.4	3.1	1.2	100.
	1892	16.8	45.9	20.1	13.0	3.1	1.1	100.
	1893	16.2	43.0	22.0	13.3	4.1	1.4	100.
	1894	15.7	47.0	20.0	12.3	3.4	1.6	100.
	1895	15.2	43.0	23.4	12.8	4.3	1.3	100.
	1896	16.4	44.1	22.1	12.4	3.8	1.2	100.
	1897	14.9	43.9	23.1	13.2	3.5	1.4	100.
	1898	15.3	44.1	22.9	12.9	3.4	1.4	100.
	1899	14.8	44.3	23.6	12.5	3.6	1.2	100.
	1900	16.2	42.1	22.7	13.4	3.9	1.7	100.
	. 1901	15.8	42.8	23.5	12.6	3.7	1.6	100.

It will be noticed in the preceding tables that the proportions of persons married of both sexes, under 20 years of age, largely decreased during the last decade.

Of grooms, the proportion, compared with the first decade, has decreased over 40 per cent., and of brides nearly 38 per cent.

The proportion of males married, between the ages of twenty and twenty-five, has decreased nearly 10 per cent., and has correspondingly increased in the more advanced age periods.

The proportion of females married, between twenty and twenty-five years of age, has not varied much, while of those between twenty-five and forty there has been an increase of proportion similar to that of males.

NUMBER OF TIMES MARRIED.

There will be found in the following table the number of grooms and of brides who were married for the first, second, third, etc., time in 1901:

TABLE XLI.

	First Marriage.	Second Marriage.	Third Marriage.	Fourth Marriage.	Total.
Grooms	3.321 3,447	475 372	46 23	4	3,846 3,846

The proportion of *grooms* married for the first time, in 1901, was 86.3 per cent. of the whole number, and the proportion of *brides* married for the first time was 89.6 per cent.

The following table will show not only the number of times each of the parties was married, but also the number of bachelors and widowers who married spinsters, the number who married widows of first or second widowhood, etc., and of spinsters and widows who married bachelors, and widows of the second, third, or fourth marriage, etc.:

TABLE XLIL

		BRI	DES.		ms.
GROOMS.	First.	Second.	Third.	Fourth.	Total Grooms
First Marriage.	3,126	190	3	2	3,321
Second Marriage	296	166	13		475
Third Marriage	23	15	7	1	46
Fourth Marriage	2	1		1	4
Total Brides	3,447	372	23	4	3,846

It will be seen, by Table XLII, that 195 bachelors married widows, 3 of whom married brides that had been twice married, and 2 three times. Of the 525 widowers who married in 1901, 321 married spinsters, and 204 married widows. Of the widows who married widowers, 20 had been twice married, and 2 three times previously.

MARRIAGES OF PERSONS OF COLOR.

The number of marriages of persons of color in Rhode Island, in 1901, was 103. This includes six marriages in which one of the parties was white. The number and color of the individuals were, therefore, 200 persons of color and 6 persons white. Of the white persons 2 were males and 4 were females. The marriages, however, may be properly included in the above class, inasmuch as the offspring of such marriages are persons of color.

The number reported during 1901, from the different towns, was as follows, viz.:

East Greenwich	1
Warwlek	3
Mlddletown	1
Newport ('ity	11
East Providence	6
Providence City	75
llopkinton	1
South Kingstown.	
Westerly	1
Total	103

There was also one marriage of a Malay with a white woman; and there were nine marriages of Chinese men and white women.

MARRIAGES OF THE DIVORCED.

The following table will give the towns from which returns of marriage with the facts of divorce were reported during 1901, the whole number of marriages of divorced persons, whether of one or both parties; also whether the second or third marriage of the divorced groom or bride:

TABLE XLIII.

TOWNS.	Number of Marriages.	Number of Divorced Persons Married.	Grooms.	Brides.	Second Marriage of Groom.	Third Marriage of Groom.	Second Martiage of Bride.	Third Marriage of Bride.
PROVIDENCE CITY	101	113	46	67	42	4	66	1
Barrington	1	1		1			1	
Bristol	2	2	2		2			
Coventry	2	2		2			2	í
East Greenwich	3	4	2	2	2		2	
West Greenwich	1	1		1			1	
Warwick	10	11	4	7	4		7	
NEWPORT CITY	6	7	3	4	3		4	
New Shoreham	2	2		2			2	
Tiverton	2	3	1	.5	1		2	
Burrillville	2	3	1	2	1		2	
CENTRAL FALLS	3	3	2	1	2		1	
Cranston	4	4	1	3	1		3	
Cumberland	. 3	4	2	2	2		2	
East Providence	5	6	4	2	4		1	1
Foster	1	1	1		1			
Glocester	1	1		1			1	
Pawtucket	18	22	7	15	7	• • • • • • • • • • • • • • • • • • • •	15	
Scituate	3	3	1	2	1		2	
WOONSOCKET	8	8.	4	4	4		4	
Exeter	1	1		1			1	
Hopkinton	2	3	2	1	2		1	
Narragansett	1	1		1			1	
North Kingstown	1	1		1				1
South Kingstown	1	1	1		1			
Richmond	1	1		1			1	
Westerly	8	8	4	4	4		4	
Total	193	217		129	84	4	126	3

There were 193 marriages, in 1901, in which one or both of the parties had been divorced.

The proportion of the number of marriages of which one or both of the parties had been divorced, to the whole number of marriages, was about 5 per cent., or one in every 20.

But the proportion of divorced *persons* married during 1901, to the whole number of persons married in the same year, was about one in every 35, or 2.8 per cent., or 28 in every 1,000.

The number of divorced persons married, in 1901, was twentyeight less than in the previous year.

These 193 marriages of divorced persons were performed by clergymen of the different denominations, or by civil authority, as follows:

Baptist 56	Advent Christian
Congregational	United Presbyterian
Methodlst	Lutheran
Free Baptist	Advent
Universalist	Primitive Methodist
Christian 7	Hebrew
Roman Catholie 5	Latter Day Saints
Protestant Episcopal 5	Second Advent
Unitarian 3	New Jerusalem
Evangelieal 3	Justices of Supreme Court

Marriage and Education.—Of the number of persons married, in 1901, 563 signed their marriage certificates with a mark. The following will show the number of males and females who did so, and their nativity:

	Whole Number.	Native.	Foreign.
Males	243	47	196
Females	319	50	269
Total	562	97	465

DIVORCES, 1901.

According to the returns made to the Secretary of the State Board of Health (State Registrar) by the clerks of the Supreme Courts of the different counties of Rhode Island, the number of applications for divorce, during 1901, was seven hundred and fiftyone (751).

The number of divorces granted, during 1901, was five hundred and seventeen.

There were 37 more applications, during 1901, than during the preceding year, and the number of divorces granted was 51 more.

Divorces are decreed for the following seven statute causes, viz.:

- 1. Adultery.
- 2. Extreme cruelty.
- 3. Willful desertion for five years of either of the parties, or for a shorter period, in the discretion of the court.
 - 4. Continued drunkenness.
- 5. Neglect or refusal to provide necessaries (having ability) for the subsistence of a wife.
 - 6. Gross misbehavior and wickedness other than aforesaid.
 - 7. Impotency.

Divorces are also decreed, or marriages set aside, in the discretion of the court, for ascertained affinity, consanguinity, idiocy, insanity, penitentiary crimes, and bigamous or otherwise illegal marriage.

The following table shows the number of applications for divorce, and the number granted, in 1901, in each county of the State; also the causes alleged for the applications:

TABLE LXIV.

	ns.				C.	AUSES	ALLEG	ED.				
COUNTIES.	Number of Applications.	Number Granted.	Adultery.	Extreme Cruelty.	Willful Desertion.	Continued Drunken- ness.	Neglect to Provide Necessaries, etc.	Other Gross Misbe- havlor,	Vold Marriage.	Habitual use of Mor-	Lived separate and apart for over 10 yrs.	Total Causes Alleged.
Bristol	24	8	3	5	17	6	14	5	1	1		59
Kent	31	19	8	14	7	8	20	2				59
Newport	33	16	7	9	18	9	17	12				72
Providence	636	456	79	217	262	162	422	96	3		12	1,253
Washington	27	18	6	10	14	3	12	î				52
Whole State	751	517	103	255	318	188	485	122	4	1	12	1,488

There were, during the year 1901, seven hundred and fifty-one (751) applications for divorce, and the whole number of causes alleged was fourteen hundred and eighty-eight (1,488). There was, therefore, an average of nearly two causes alleged in each application.

The causes alleged why divorces should be granted in the applications, during 1901, were 118 more in number than in 1900.

		Causes of Applications where Divorce was Granted.								AP	PLICAN	T.
COUNTIES.	Sex.	Adultery.	Extreme Crucky.	Willful Desertion.	Continued Drunk- enness.	Neglect to Provide Necessaries, etc.	Other Gross Misbe- havior.	Vold Marriage.	Separate and lived upart for more than 10 years.	Husband.	Wife.	Total.
Bristol County	Males Females			1	1					1		
Kent County	Males	1 2		2	2 4	7				5	20	25
Newport County	Males	1		4 8	1 3	10	1 5			7	34	41
Providence County	Males	25 13	9 58	61 51	17 34	230	4	1	4	120	391	511
Washington County	Males	3	6	3	3	10	1 4			7	31	
Total	Males	30 20	9 71	71 71	20 45	262	6		4	140	483	623

LENGTII OF TIME MARRIED.	Bristol County.	Kent County.	Newport County.	Providence County.	Washington County.	Whole State.
Number under six months.	1		·	8		9
Six months and under one year		1		12		13
One year and under five	7	6	5	172	10	200
Five years and under ten	9	11	12	173	6	211
Ten years and over	7	13	16	256	11	303
Unstated				15		15

ol County 9 years, 3 months.	marriage in	years of	Average of
County11 years, 1 month.			**
ort County12 years, 3 months.	**	••	**
dence County	••		**
ington County9 years.	**	**	**
e State 10 years, 6 months		**	

In order to show the actual number of applications, and the number of divorces granted in each of the last twenty-nine years, the following summary is presented:

			Applications
	Applications	Divorces	refused or continue
	for divorce.	granted.	or withdrawn.
1873	261	173	88
1874	276	242	31
1875	227	158	
1876	254		58
1877	257	178	79
1878	258	196	62
1879	255	246	9
1880	347	273	
1881	350	268	82
1882	339	271	68
1883	321	257	64
1884	320	266	54
1885	293	227	66
1886	336	257	79
1887	322	248	74
1888		224	
1889			
1890			
1891			
1892	***************************************		
1893			
1894			
1895			
1896			
1897	***************************************		
1898	•••••		
1899			
1900			
1901	751	517	234

The average annual proportion of decrees of divorce granted during the last twenty-nine years, to the applications therefor, was 71.5 per cent.

During the last ten years the proportions were as follows:

Years	1892,	1893,	1894,	1895.	1896,	1897.	1898.	1899,	1900,	1901.
Per cent	71.8	56.0	55. 9	70 9	69.0	69 1	65.0	69.6	65.0	66 6

The proportion of *divorces granted*, in 1901, to the whole number of marriages, during the same year, was *one divorce* to every seven and four-tenths marriages.

The proportion of applications for divorce to whole number of marriages, during the year, was one application to every five and one-tenth marriages.

The following table shows the number of divorces granted in each county, and the whole State, in each of the last thirty-three years, and the proportion of marriages to each divorce granted in each year:

Table XLV.

			-					,			****	
		stol nty.	Cou	nt nty.		port inty.		nty.	Washi Cou	ngton nty.		ole ite.
YEARS.	Divorces Granted.	Marriages to one Divorce.	Divorces Granted.	Marriages to one Divorce.	Divorces Granted.	Marriages to one Divorce.	Divorces Granted.	Marriages to one Divorce.	Divorces Granted.	Marriages to one Divorce.	Divorces Granted.	Marriages to one Divorce.
1869	10	10.6	15	12.5	6	27.7	120	13.8	11	15.5	162	14.1
1870	3	22.7	18	11.8	6	26.3	152	11.3	21	9.3	200	11.8
1871	5	16.8	11	17.9	4	49.7	123	13.3	18	11.4	161	14.5
1872	8	10.2	13	15.7	8	22.9	149	12.6	22	8.9	200	12.7
1873	6	16.2	22	9.8	8	21.9	131	14.8	6	33.7	173	15.2
1874	10	8.9	20	8.0	6	29.0	190	10.0	16	11.6	242	10.5
1875	2	50.0	18	8.8	7	23.4	120	14.9	11	20.5	158	15.7
1876	6	14.5	15	12.8	7	20.5	148	11.1	20	8.8	190	11.5
1877	7	12.0	9	16.3	7	26.0	134	12.4	21	9.9	178	12.8
1878	4	26.0	11	13.3	13	12.8	156	10.9	12	17.3	196	11.9
1879	5	18.8	19	9.0	7	24.1	195	9.1	20	9.7	246	9.7
1880	8	12.1	23	9.4	11	17.6	208	9.7	23	17.0	273	10.1
1881	6	20.1	26	7.3	10	16.9	207	10.0	19	11.0	268	10.4
1882	6	15.0	18	10.3	15	13.0	221	8.9	11	16.2	271	9.7
1883	6	15.8	15	11.5	9	21.2	214	9.2	13	13.3	257	10.2
1884	4	16.7	20	8.0	12	15.7	209	9.3	21	8.2	266	9.6
1885	3	23.0	9	18.6	17	11.2	186	10.1	12	15.0	227	11.0
1886	5	16.0	17	11.0	15	12.3	194	10.9	26	7.3	257	10.7
1887	1	75.0	23	8.0	13	13.4	187	11.8	24	7.9	248	11.4
1888	5	15.8	14	13.5	4	46.0	188	12.5	13	16.5	224	13.5
1889	6	12.5	27	8.3	14	14.0	211	11.2	16	10.8	274	11.1
1890	4	27.5	19	12.1	1	232.0	196	12.3	24	8.8	244	13.0
1891	10	8.4	20	11.2	17	12.6	214	11.2	14	14.3	275	12.1
1892	2	49.5	19	12.4	20	11.6	236	11.6	19	10.4	296	11.8
1893	3	38.0	10	23.8	21	9.9	235	11.5	22	8.0	301	11.8
1894	7	16.0	22	9.0	18	12.3	207	12.4	26	6.8	280	11.7
1895	8	10.9	17	9.9	11	21.3	318	8.8	19	11.2	373	9.4
1896	7	12.4	21	7.5	18	11.3	304	8.8	13	16.1	363	9.2
1897	9	9.3	20	8.5	16	12.9	306	8.1	21	9.7	372	8.4
1898	7	12.4	22	9.3	19	9.9	333	7.8	19	9.8	400	8.2
1899	6	13.5	20	11.9	18	12.0	355	7.7	13	13.0	412	8.3
1900	8	10.6	19	12.4	15	17.1	40 0	7.9	24	8.8	466	8.5
1901	8	11.6	19	13.5	16	13.3	456	6.8	18	10.4	517	17.4

The ratio of divorces granted in the entire State, during 1901, to the whole number of marriages during the same year, was one divorce to every seven and four-tenths marriages, as previously stated.

During the ten years 1869 to 1878, inclusive, the ratio of divorce to number of marriages was one divorce to every thirteen; during the ten years 1879 to 1888, inclusive, the ratio was one divorce to every ten and six-tenths marriages.

The average of the last ten years was one divorce to every nine and five-tenths marriages.

During the thirty-three years 1869–1901 the average proportions of divorce to marriage, in the several counties and the State, have been as follows:

Bristol County	One divorce to every 19.7 marriages.
Kent County	One divorce to every 11.6 marriages.
Newport County	One divorce to every 25.5 marriages.
Providence County	One divorce to every 10.7 marriages.
Washington County	One divorce to every 12.3 marriages.
Whole State	One divorce to every 11.1 marriages.

Table showing the Number of Marriages to every Decree of Divorce, in five of the New England States, during the twenty-five years from 1877 to 1901, inclusive.

TABLE XLVI.

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DEATHS, 1901.

The number of deaths registered in Rhode Island during 1901, according to the returns made to the State Registrar, was seven thousand, nine hundred and sixty-six (7,966).

This number is larger by 508 than that of the year 1899, and smaller by 857 than that of 1900.

The death rate (18.2 in every 1,000 living persons) was 2.4 lower than that of the previous year.

The following summary will show the death rates per 1,000 for each of the last five census years, in comparison with the last five years:

1880.	1885.	1890.	1895.	1900.	1897.	1898.	1899.	1900.	1901.
17.5	17 . 7	20.7	19.6	20.6	17.6	16.7	17.6	20.6	18.2

Since 1876 the returns have been more complete than previously, and during the last ten years few deaths have occurred in the State which were not reported.

On the following page will be found the death rates, by counties, for forty-one years.

TABLE XLVII.

Death rates per 1,000 living, by counties, for forty-one years, from 1861 to 1901, inclusive; also the average rate of each period of five years each, from 1861 to 1901, inclusive, for the whole State.

YEARS.	Bristol.	Kent.	Newport.	Providence.	Washington.	State.	STATE. ANNUAL AVERAGE OF FIVE-YEAR PERIODS, 1861-1901.
Five years. 1861-1865	17.7	15.9	18.9	17.7	12.4	17.1	17.1 per 1,000 living
1866	19.2	14.2	17.3	16.6	11.4	16.1	
1867	17.0	15.1	15.0	16.4	10.9	15.6	
1868	15.7	13.7	14.7	17.0	10.0	15.7	15.6 per 1,000 living
1869	17.9	16.7	13.2	16.0	12.8	15.6	
1870	15.5	13.5	14.1	15.5	12.0	14.9)	
1871	16.3	17.5	12.2	15.9	12.3	15.4	
1872	21.1	16.1	14.5	21.2	14.7	19.1	
1873	18.4	13.8	19.0	22.0	15.1	20.2 }	17.5 per 1,000 living
1874	14.7	13.2	10.8	17.7	13.7	16.3	
1875	14.9	14.9	13.5	17.5	15.5	16.7	
1876	14.7	11.7	13.5	16.8	15.9	15.9	
1877	18.2	13.1	12.4	18.7	12.8	17.2	
1878	17.5	14.2	13.7	18.3	13.0	17.2	16.8 per 1,000 living
1879	13.2	15.1	14.8	17.2	11.1	16.2	
1880	19.2	14.9	14.5	18.5	12.7	17.5 J	
1881	17.9	16.5	15.7	19.3	11.9	18.1	
1882	16.5	15.3	17.2	19.7	11.0	18.4	
1883	17.7	14.6	17.7	20.8	9.8	19.1 }	18.0 per 1,000 living
1884	17.7	17.1	14.5	17.8	12.6	16.9	
1885	16.3	16.4	14.5	18.5	14.0	17.7	
1886	19.2	17.5	15.0	19.2	15.0	18.8	
1887	18.2	15.5	15.1	21.1	15.5	19.8	4000 1/
1888	21.3	18.4	18.0	21.0	16.0	20.4 }	19.8 per 1,000 living
1889	17.6	20.1	14.7	19.2	14.6	19.0	
1890	22.1	17.6	16.5	22.1	13.5	20.7)	
1891	20.5	18.0	20.6	18.6	12.6	19.6)	
1892	20.0	20.7	20.1	20.2	15.2	20.1	
1893	19.9	19.4	17.9	19.9	12.6	19.6	19.6 per 1,000 livin
1894	16.5	19.8	16.9	19.1	16.4	19.1	
1895	20.9	17.4	15.9	20.1	15.0	19.6	
1896	17.9	18.8	17.0	19.2	15.3	19.1	
1897	18.6	16.7	16.2	17.6	14.7	17.6	
1898	15.0	15.6	15.5	16.7	14.5	16.7}	18.3 per 1,000 livin
1899	17.6	16.8	17.6	17.6	14.1	17.6	
1900	22.6	23.6	18.7	19.9	18.2	20.6	
1901	17.9	19.7	16.5	17.8	16.2	18.2	

SEX OF DECEDENTS.

Of the 7,966 persons whose deaths were returned during the year 1901, 4,066 were males and 3,900 were females; the ratio standing at 104.2 males to each 100 females, or about 510 males and 490 females in every 1,000 decedents.

The following Table will show the number and proportion of males and females among the *decedents* in Rhode Island during the ten years 1853 to 1862, inclusive; also in each of the thirty-nine years from 1863 to 1901, inclusive, and for the entire period of forty-nine years:

TABLE XLVIII.—DEATHS.

	Males.	Females.	Males to every 100 female
0 years, 1853-1862.	10,930		96.9
863	1,621		102.2
864	1,633		92.4
865	1,686		98.1
866	1,497		101.5
867	1,442		99.7
868	1,413		94.3
869	1,696		100.6
870	1,588		96.2
871	1,621		94.1
872	2,118	2,129	99.4
873	2,166	2,237	95.5
874	2,111	2.118	99.7
875	2,108	2.209	95.4
876	· ·		91.7
877			92.0
878			94.8
879			95.4
880			96.0
881			
882			96.5
883	• -	.,	99.0
884	·		
885			
886			
887			
888			
889			
890			
891			
892			101.9
898			101.5
894			103.8
895			101.6
896			
897			106.7
898			106.1
899			
900			102.8
901	4,066	3,900	104.2

The following Table of *births*, during the same period of time as the preceding, will show by comparison the different proportions of the sexes in the two classes of events:

TABLE XLIX.—BIRTHS.

		Males to
Males.	Females.	every 100 females
10 years, 1853-1862 18,377		106.4
1863 1,892	1,788	
1864		100.3
1865 2,096	1,857	112.9
1866 2,546	2,256	108.0
1867 2,655	2,464	107.0
1868 2.745	2,627	104.5
1869 2,685	2,560	104.9
1870 2,679	2,536	104.9
1871 2,878	2,800	105.8
1872 3,085	3,058	100.9
1873 3,135		108.6
1874 3,311	3,155	104.9
1875 3,362	3,146	106.9
1876 3,291	3,038	108.3
1877 3,163		103.0
1878 3,402		102.7
1879		105.4
1880 3,241		106.1
1881 3,498	· ·	107.2
1882	·	105.8
1883	· ·	101.4
1884	· ·	103.4
1885	· ·	104.4
1886 3,897		104.6
1887	· ·	107.4
1888 4.023		105.4
1889	·	
1890		103.2
1891 4,926		109.5
		109.3
1892 4,765 1893 5,105		103.3
	•	105.6
1894 5,129	·	108.2
18955,136	·	103.3
1896 5,461		
1897 5,493		103.5
1898	·	102.9
1899 5,591		106.7
1900 5,625		103.0
1901 5,944	5,348	111.1
49 years166,660		105.6

SEASON AND MORTALITY.

The whole number of decedents, and the sex of the same, in each month of the year 1901, and in each division of the State, may be found in Table V, on the tenth and eleventh pages.

The influence of season upon mortality may be further illustrated by the following Table, which shows the number and percentage of deaths, compared with the whole number of deaths, in each quarter of each of the last five years, and in the aggregate for forty-five years, 1853 to 1897, inclusive:

TABLE L.

	1901.		1900.		1899.		1898.		1897.		45 years, 1853-1897.	
SEASON.	Number.	Per cent.	Number.	Per cent,	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
January-March.	2,179	27.35	2,400	27.20	2,043	27.39	1,627	23.56	1,937	27.24	47,004	24.38
April-June	1,761	22.11	2,220	25.16	1,699	22.78	1,643	23.79	1,540	21.66	42,029	21.80
July-September.	2,162	27.14	2,315	26.24	2.053	27 53	1,998	28.94	2,024	28.47	55,526	28.80
October-Dec	1,864	23.40	1,888	21.40	1,663	22.30	1,637	23.71	1,109	22.63	48,235	25.0
Total	7,966	100.00	8,823	100.00	7,458	100.00	6,905	100.00	7,110	100.00	192,794	100.00

Comparing the percentages of 1901 with those of the forty-five years, we find that of the first quarter is 2.97 per cent. larger; the second quarter is .31 per cent. larger; the third quarter 1.66 per cent. smaller; and the last quarter 1.62 per cent. smaller than for the average of the forty-five years. The greatest mortality for any one season of any year is usually found in the third quarter; but in 1890 and 1900, owing in large measures to the epidemic of influenza, the first quarter had the largest mortality.

TABLE LI.

Showing the Months in the Order of Largest Mortality for Eight Years.

	1900.	1899.	1898.	. 1897.	1806.	1895.	1894.
1. March 761	April 988	January 785	August 730	August 735	July 836	March 779	July 833
2. January 742	March 915	August 752	September 673	February 721	August 810	July 743	January 799
August 735	August 829	July 717	July 595	September 647	March 635	August 738	August 628
4. July 732	July 823	March 638	December 585	July 642	April 634	April 630	September 595
September 695	February 752	December 636	March 582	March 619	May 626	October 629	April 578
February 676	January 738	April 634	April 576	January 597	January 617	September 610	May 569
7. October 648	December 678	February 620	May 568	October 572	June 596	December 610	March 561
April 638	September 663	September 584	October 543	December 559	February 581	February 606	February 559
9. December 635	May 645	May 547	January 540	April 538	September 566	January 577	June 549
10. May 596	October 629	November 522	November 509	May 520	December 561	November 570	October 520
11. November 581	June 587	June 518	February 505	June 482	October 556	May 562	December 502
12. June 527	November 581	October 505	June 499	November 478	November 486	June 481	November 467
1	1	1	1	1	1	1	1
7,966	8,823	7,458	6,905	7,110	7,504	7,535	7,160
			The state of the s				

NATIVITY OF DECEDENTS.

There may be found in Table I, on pages 2-5, the number of decedents in 1901, by division of the two classes of native and foreign born.

Of the whole number of decedents, 7,966, 5,654 were native born, that is, were born in the United States, and 2,312 were born outside of the United States.

PARENTAGE OF DECEDENTS.

Of the whole number of decedents, 7,966, reported in 1901, 3,264 were of native, and 4,702 were of foreign and unknown parentage.

By the term "foreign parentage" is meant the decedents whose fathers were born in some other country and not in the United States. The grandchildren of the foreign born are reckoned as of native parentage, if their fathers were born in the United States.

The following twelve towns reported a larger number of decedents of foreign parentage than of native, namely: Warren, Warwick, Tiverton, Burrillville, Central Falls, Cumberland, Johnston, Lincoln, North Smithfield, Pawtucket, Providence, and Woonsocket; also the State Institutions at Cranston.

These numbers varied from a moderate excess to three or four times as many of foreign as of native parentage.

The following Table gives the number and proportion in every one thousand deaths of decedents of native and of foreign parentage in each of the last five years; and in the aggregate for forty years, or from 1858 to 1897, inclusive:

TABLE LII.

	1901.		1900.		1899.		1898.		1897.		40 years, 1858-1897.	
PARENTAGE.	Number.	Per 1,000.	Number.	Per 1,000.	Number.	Per 1,000.	Number.	Per 1,000	Number.	Per 1,000.	Number.	Per 1,000.
Native	3,264	409.7	8,745	424.5	3,097	415.0	2,938	425.5	3,102	436.3	103,927	503.5
Foreign	4.702	590.3	5,078	575.5	4,361	585.0	3,967	574 5	4,008	563.7	102,579	496.7
Total	7,966	1000.0	8,823	1000.0	7,458	1000.0	6,905	1000.0	7,110	1000.0	206,506	1000.0

Age of Decedents.

In Table I, on pages 2-5, may be found the aggregate and average age of all the decedents whose deaths occurred in 1901, and with the age of each sex in each town and county in the State.

By that Table it will be seen that the average age of all the male decedents in the State, in 1901, was 35.01 years, and that the average age of all the female decedents, in the same year, was 38.07 years; the average age of all decedents, of both sexes, was 36.51 years.

The average age of the total decedents in the State, in 1901, was nearly three years greater than the average for 1900.

The average age of the male decedents, in 1901, was three and twenty one-hundredths of a year greater, and the average age of the female decedents was two and forty-nine one-hundredths of a year, greater than in the previous year.

The following Table will present, separately, the average age of the male and female decedents, and the average age of all decedents, in each year for forty-one years; also the average age in seven periods of five years each, from 1861 to 1900, inclusive:

TABLE LIII.

YEARS.	Average Age of Males,	Average Age of Females.	Average Age of All.	Average Age, 5-year periods, 1861-1900.
1861	26.95	30.58	28.82	
1862	29.64	32.65	31.15	
1863	28.29	30.86	29.56	29.32
1864	28.13	30.43	29.40	
1865	26.38	28.97	27.69	}:
1866	31.13	35.07	83.09	
1867	32.16	35.86	34.01	
1868	30.47	35.08	32.85	32.42
869	28.62	31.29	30.25	
870	31.02	32.75	31.90)	
1871	32.57	34.43	33.52	
1872	28.41	81.15	29.77	
873	26.18	28.62	27.42	30.16
874	28.03	31.66	28.86	
1875	29.72	32.75	31.27	
1876	31.47	33.21	32.37	1
877	29.25	31.56	30.45	
878	29.02	31.11	30 09	31.21
879	31.29	33.24	32.29	
880	29.62	32.06	30.86 J	
1881	30.99	34.07	32.55	
1882	31.33	35.57	33.50	
883	33.64	37.44	35.55	33.99
884	32.29	35.12	33.76	
885	33.53	35.60	34.59	
1886	33.02	34.91	34.01)	
887	30.97	32.91	31.95	
888	33.17	35.74	34.53	33.42
889	32.20	35.74	34.00	
890	31.04	34.26	82.62 j	
891	32.70	36.28	31.47	
892	32.96	37.75	85.34	
893	30.97	33.99	32.46	33.96
894	32.47	34.40	33.44	
895	31.70	36.49	34.08	
896	30.86	34.47	32.61	
897	33.71	37.06	35.37	
898	34.34	36.34	35.31 }	34.53
899	34.04	87.80	35.67	
900	31.81	35.58	33.67	l.
1901	35.01	38.07	36.51	

The above Table shows that the average longevity of the dececedents in Rhode Island increased over five years during a period of forty years, ending with 1900.

The following Table will present some of the facts of the preceding as occurring in the different divisions of the State, as well as of the State at large. It will show the average age of the decedents in each of the larger divisions of the State, in each of the last four years, and also the average of each of seven periods of five years each, comprising the thirty-five years from 1863 to 1897, inclusive:

TABLE LIV.

DIVISIONS OF THE STATE.	1901.	1900.	1899.	1898.	1893-1897, 5 years.	1888-1892, 5 years.	1883-1887, 5 years.	1878–1882, 5 years.	1873–1877, 5 years.	1868–1872, 5 years.	1863–1867, 5 years.
Bristol County	45.36	36.06	36.89	40.09	42.78	39.76	38.45	36.68	33.61	35.12	34.78
Kent County	35.49	29.81	33.14	32.74	31.07	32.22	37.66	37.11	36.20	34.77	35.81
Newport County	39.31	39.06	42.84	39.57	39.98	40.63	42.41	39.21	40.68	40.04	33.54
Providence County*	33.24	32.48	34.70	32.18	30.79	31.63	31.83	30.60	28.46	25.26	29.16
Providence City	35.47	33.01	33.79	33.18	32.03	33.44	32.19	29.50	27.19	25.45	28.50
Washington County	49.92	44.41	50.87	50.25	46.55	46.77	43.39	41.01	41.14	39.67	30.87
Whole State	36.51	33.67	35.67	35.31	33.59	34.19	33.97	31.86	30.28	31.66	30.73

By reference to Table LIV it will be seen that the average age of all decedents during the last four years is more than four years greater than the first period of five years, 1863–1867.

PERCENTAGE OF DECEDENTS BY DIFFERENT AGES.

In Table VI, on pages 12 to 19, inclusive, will be found the number of deaths in 1901, in each town and each county, of each sex, and in each period of life, with the percentage of the whole number of deaths in each division to the population of the same, geometrically estimated from the census of 1900.

The following Table shows the percentage of decedents in each division of ages, to whole number of deaths, in each of the last nine years, and in the aggregate for three periods: one of twenty years and seven months, from June 1st, 1852, to December 31, 1872, inclusive; one of ten years, from 1873 to 1882, inclusive; and one of ten years, from 1883 to 1892, inclusive:

^{*} Exclusive of Providence city.

TABLE LV.

						_						
PERIODS OF LIFE.	1961.	1900.	1899.	1898.	1897.	1896.	1895.	1894.	1893.	10 years, 1883 to 1892.	10 years, 1873 to 1882.	20 years, 7 months, 1852 to 1872.
Under one year	21.1	23.4	22.7	22.9	22.5	24.4	21.7	23.1	23.2	20.4	18.9	17.8
1 and under 2	4.9	5.7	5.1	4.7	4.9	4.7	5.3	4.8	5.2	5.6	7.6	8.8
2 and under 5	4.1	5.1	4.2	4.1	4.5	5.9	6.2	5.1	5.3	5.5	8.1	8.7
Total	30.1	34.2	32.0	31.7	31.9	35.0	33.2	33.0	33.7	31.5	34.9	35.3
5 and under 10	2.3	2.8	2.1	2.4	2.5	3.1	3.6	2.7	3.9	3.5	5.0	4.8
10 and under 20	3.8	3.6	3.7	3.8	4.4	4.4	4.2	5.1	4.5	5.1	5.8	6,0
20 and under 30	8.2	7.7	7.2	8.0	8.0	8.0	8.6	8.6	7.9	8.7	9.2	9.6
30 and under 40	7.8	7.2	8.4	8.1	7.7	8.0	7.5	7.4	8.0	7.9	7.8	8.1
40 and under 50	9.0	7.7	7.9	8.1	7.6	7.6	8.0	8.5	8.4	7.5	6.9	7.3
50 and under 60	10.3	9.9	9.7	10.1	8.5	8.9	8.6	8.9	8.9	8.5	7.2	7.0
60 and under 70	11.5	10.5	11.1	11.1	11.5	10.0	10.3	10.2	10.0	9.7	$\bar{8}.2$	7.6
70 and under 80	10.4	10.1	11.2	10.1	10.9	9.0	9.8	9.3	8.9	9.9	8.8	7.9
80 and under 90	5.6	5.4	5.6	5.6	6.0	5.0	5.3	5.0	4.8	5.9	5.1	5.1
Over 90 and not stated	1.0	0.9	1.1	1.0	1.0	1.0	0.9	1.3	1.0	1.5	1.1	1.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Compared with the average of thirty years, ending with 1882, the average proportion of the mortality of children under one year of age, during the last nine years, was 4.6 per cent., or about 46 in every one thousand deaths more than the average in the longer period.

The proportions in the other periods were not greatly different from previous years, although there was some increase of percentage in the age periods above fifty years.

The following Table will present the varying proportions of deaths to whole number of deaths, in four different periods of life. from 50 years of age to 90 years, grouped in four periods of averages of ten years each, 1853–1892; in 1993, 1894, 1895, 1896, 1897, 1898, 1899, 1900, and 1901.

TABLE LVI.

AGE OF DECEDENTS.	1st Decade, 1853-1862.	2d Decade, 1863–1872.	3d Decade, 1873-1882.	4th Decade, 1883-1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
50 to 60				Pr. ct.	F.				1	į.		1	Pr. ct.
60 to 70	6.9	8.3	8.2	9.7	10.0	10.2	10.3	10.0	11.5	11.1	11.1	10.5	11.5
70 to 80	7.3	8.4	8.8	9.9	8.9	9.3	9.8	9.0	10.9	10.1	11.2	10.1	10.4
80 to 90	4.6	5.4	5.1	15.9	4.8	5.0	5.3	5.0	6.0	5.6	5.6	5.4	5.6

COLORED DECEDENTS.

There were 257 deaths of persons of color during 1901.

The towns from which they were returned, and number in each, were as follows:

Providence City
Bristol
East Greenwich
Warwick 3
Jamestown 1
Newport City
New Shoreham
Portsmouth
Cranston
East Providence. 6
Johnston
North Providence
Pawtucket 4
Charlestown
Hopkinton
Narragansett
North Kingstown
South Kingstown
Richmond
Westerly 7

Months.	Deaths.	Months.	Deaths.	Months.	Deaths.	Months.	Deaths.
January	19	April	17	July	21	October	18
February	90	May	20	August	19	November.	20
March	30	June	22	September	23	December .	26
	_		-		- 1		_
First Quart	er71	Second Qu	arter59	Third Quai	rter63	Fourth Qua	arter 64

First six months, 130; second six months, 127. Total, 257.

The following summary will show the proportion, to the whole colored population, of each of the events of birth, marriage, and death of colored persons, during the twenty-four years from 1878 to 1901, inclusive:

	One Birth	One Person Married	One Death
	in every	in every	in every
1878	36.4	39.2	40.2
1879	39.6	51.4	37.3
1880	47.1	43.3	44.0
1881	34.3		35.4
1882	36.8	44.5	45.4
1883		63.3	39.7
1884	34.8	46.0	34.5
1885	36.7	51.7	40.1
1886	34.6	43.2	37.8
1887	35.8		37.0
1888	37.6	55.0	38.0
1889	38.7		40.0
1890	45.3	57.6	41.0
1891	42.8	41.2	36.4
1892	40.6	88.5	31.3
1893	38.6	44.2	31.3
1894	34.3	56.6	34.2
1895	35.9	42.6	
1896	35.1	38.9	37.9
1897	38.5		
1898	37.9	48.2	41.8
1899	39.4	41.7	36.0
1900	39.5.:	37.4	37.7
1901	35,5		35.5

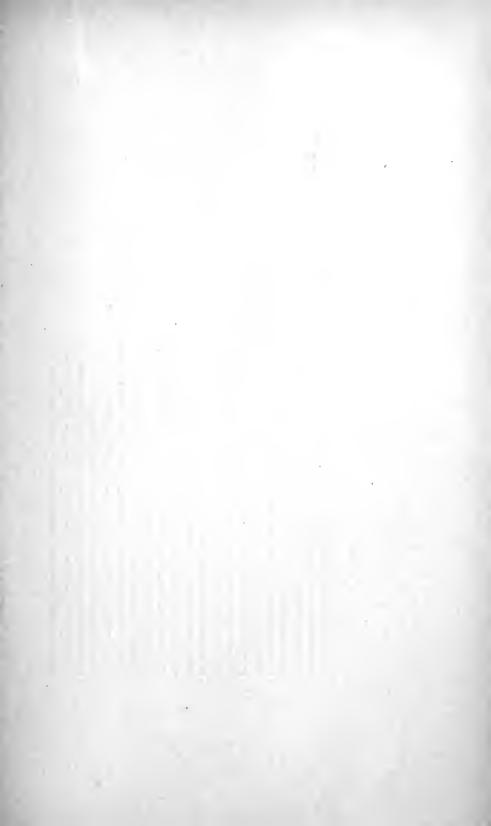
In every one thousand of the colored population there were, in 1901:

Of Births.	Of Persons Married.	Of Deaths.
28.2	22.6	28.2

The following exhibit will show the number of living births, marriages, and deaths among the colored population of Rhode Island, during ten years, from 1861 to 1870, inclusive; ten years, from 1871 to 1880, inclusive; ten years, from 1881 to 1890, inclusive; ten years, from 1891 to 1900, inclusive; for the year 1901; and the aggregate of the same.

10 years, 1861-1870	1,131 births	557 marriages	1,153 deaths.
10 years, 1871-18801	,615 births	705 marriages	.1,573 deaths.
10 years, 1881-1890	1,954 births	752 marriages	.1,860 deaths.
10 years, 1891-1900	2,080 births	957 marriages	.2,218 deaths.
1901	252 births	103 marriages	. 257 deaths.
			_
Total 41 years	032 births	R 074 marriages	7 061 deaths

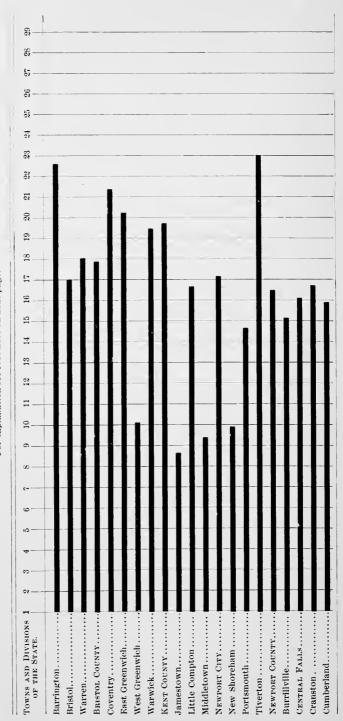
During the first ten years (1861–1870) there were 22 more deaths than births; during the second ten (1871–1880), 42 more births than deaths; during the third ten (1881–1890), 94 more births than deaths; and in the last ten (1891–1900), 138 more deaths than births. During 1901 the number of births was 5 less than the number of deaths.

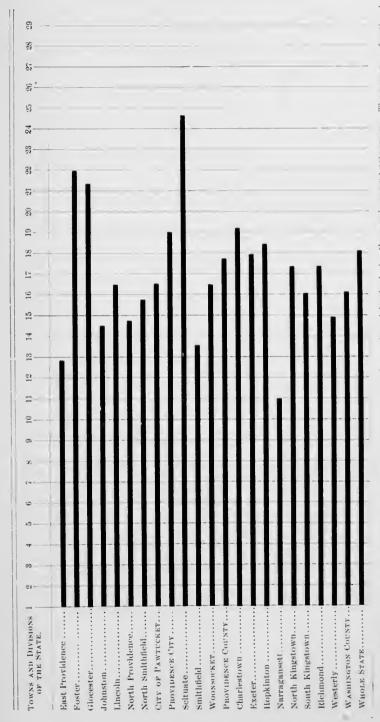


DEATH RATES.

Diagram II.—Showing the Number of Deaths in every 1,000 of the Population, in each Town and each County in the State, during the Year 1901, computed upon an estimated increase of the Population by the Census of 1901.

For explanation see foot-note on next page.





The spaces are fractional parts of one. For instance, the heavy horizontal line against Barrington, at the top of this diagram, reaches across five-tenths of the space between the perpendic The figures at the top of the perpendicular lines indicate, in whole numbers, the number of deaths during the year in every 1,000 persons. ular lines 22 and 23. It shows the death rate of Barrington, in 1901, was twenty two and five tenths in every 1,000 of the population.



CAUSES OF DEATH, 1901.

The statistics of the causes of death in Rhode Island, in 1901, may be found in Tables VII, VIII, IX, and X. The whole number of deaths, as previously stated, was 7,966, which was 857 less than the number returned in 1900, and 508 greater than the number reported in 1899. The number of which the cause of death was reported was 7,924, and the number of which the cause was not stated was 42.

The following Table shows the number of deaths, in 1901, in each large division of the State, and the number and proportion in each division from which causes were reported unknown:

TABLE LVII.

	Bristol County.	Kent County.	Newport County Towns.	Providence County Towns.	Washington County.	Newport City.	Central Falls.	Pawtncket.	Providence City.	Woonsocket.	Whole State.
Number of deaths	240	601	161	1,294	894	386	300	667	3,444	479	7,966
Cause not stated	1	э		9	5	3		3	19	2	42
One in	240	200		144	197	129		222	181	239	190

TABLE LVIII.

Proportion of Deaths reported with "Causes Unknown" in each Division of the State, for a period of forty-six years, from 1856 to 1901, inclusive.

			STAT	re Divis	ions.			
YEARS.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.	Whole State.	In every 1,000
856-1860, One in every	18.1	5.0	7.2	5.5	30.7	7.3	9.4	106.
1861-1865, One in every	32.1	13.1	16.1	7.9	39.3	23.7	15.1	66.
866-1870, One in every	83.9	8.9	26.7	7.1	61.8	16.4	14.1	70.9
1871-1875, One in every	38.6	8.6	13.1	9.9	83.4	13.6	17.1	58.
876, One in every	11.5	7.9	18.5	9.9	124.3	22.8	19.3	45.
877, One in every	201.0	17.7	9.7	11.9	323.0	16.0	23.2	43.
1878, One in every	32.1	7.4	9.0	13.7	124.2	21.7	21.1	47.
1879, One in every	16.6	9.2	12.4	9.5	225.1	8.6	17.6	56.
880, One in every	21.9	23.5	13.5	10.5	122.3	17.8	20.7	48.
876-1880, One in every	31.9	17.2	19.9	18.1	39.6	26.9	25.2	39.
881, One in every	204.0	13.0	11.2	7.3	143.0	6.5	14.4	69.
882, One in every	37.6	11.6	10.9	10.6	187.0	7.7	18.8	53.
883, One in every	40.4	15.9	15.0	15.3	392.8	17.0	28.4	36.
884, One in every	100.0	40.0	81.6	91.7	372.1	90.4	122.4	8.
885, One in every	185.0	355.0	137.0	45.6	309.1	52.2	91.3	10.
881-1885, One in every	75.4	20.1	18.8	15.7	242.2	14.0	28.6	34.
886, One in every	110.5	192.5	86.0	87.0	195.1	55.2	113.7	7.
887, One in every	212.0	343.0	73.5	782.6	264.0	351.0	333.7	3.
888, One in every	251.0	408.0	152.7	164.3	293.8	368.0	235.7	4.
889, One in every	208.0	152.0	221.0	176.7	120.0	338.0	160.0	6.
890, One in every			236.0	109.0	190.0	159.0	161.0	6.
886-1890, One in every	576.0	413.0	125.1	154.8	189.0	171.2	177.6	5.
891, One in every			598.0	159.0	175.0	154.0	194.0	5.
892, One in every			591.0	240.0	212.0	184.0	264.0	3.
893, One in every	228.0	96.3	64.2	70.2	224.0	307.0	109.9	9.
894, One in every		192.3	173.0	91.6	144.9	402.0	130.2	7.
895, One in every		522.0	122.7	280.6	90.9	123.7	144.9	6.
	1,155.0	277.5	159.6	126.5	151.8	195.2	152.5	6.
896, One in every		116.6		707.5	155.6	382.0	258.8	3.
897, One in every	231.0	536.0	127.7	139.5	187.4	302.0	284.4	3.
898, One in every		172.0	164.6	596.2	366.1	184.5	345.2	2.5
899, One in every	125.3	287.0	188.0	636.7	351.3	180.0	339.0	2.
900, One in every	297.0	354.0	305.0	281.0	282.9	109.8	267.3	3.
896-1900, One in every	302.8	224.4	225.9	500.1	242.8	213.3	293.0	3.4
901, One in every	240.0	200.3	182.3	195.7	181.3	197.0	190.0	5.

^{*} Not including Providence city.

TABLE LIX.

Exhibiting the Order in regard to Number and Proportion of Decedents from Thirteen Principal Causes of Death.

Per 1,000 of Whole Number of Deaths, 35 years, 7 months.		154.3	64.5	53.1	53.0	43.6	40.1	33.68	38.5	36.1	30.3	83. 65.	25.1	19.1
June 1st, 1852, to December 31st, 1887— 35 years, 7 months.	Number 8,823 Whole Number 6,905 Whole Number 7,110 Whole Number 70,552 Whole Number 129,331	Consumption 900 Consumption 987 Consumption 972 Consumption 886 Consumption 777 Consumption 7.767 Consumption 19.847	Pneumonla 8.298	570 Cholera Inf'm., 5,193 Cholera Infantum 6,821	Old Age 6,797	516 Cholem Inf'm., M.73 Cholera Inf'm 468 Cholera Inf'm 425 Apoplexy 3,886 Heart, Diseases of 5,642	387 Kidney Diseases 2,893 Dysentery and Diarrhau 5,166	2,663 Apoplexy and Paralysis. 5,050	2,548 Scarlet Fever 4,974	2,449 Fevers, Typhoid, etc 4,632	2,088 Accidents, all kinds 3,921	2,038 Diphtherla* 3,777	Convulsions 2.859	Croup. 2.461
January 1st, 1888, to January 1st, 1897— 10 years.	Whole Number . 70,552	Consumption 7,767	Pneumonia 6,213	Cholera Inf'ni 5,193	Heart Diseases . 4.959	Apoplexy 3,885	Kidney Diseases 2,893		263 Accidents 2,548	254 Brain Diseases., 2,449	231 Old Age 2,088	231 Cancer 2.038	226 Diphtherla 1,921 Convulsions	159 Fever, Typhold. 1,345 Croup.
1897.	05 Whole Number 7,110	86 Consumption 777	686 Heart Diseases 549 Pneumonia 635 Pneumonia 6,213 Pneumonla	542 Heart Diseases 570	555 Kidney Diseases, 477 Kidney Diseases, 471 Apoplexy 469 Heart Diseases, 4.959 Old Age	68 Cholera Inf'm 425	416 Kidney Diseases. 387	202 Brain Diseases 327 Brain Diseases 328 Bronchitis	296 Accidents 263	279 Caneer 251	236 Diphtheria 231	233 Enteritis 231	205 Bronchitts 226	93 Old Age 159
1898.	Whole Number .6,9	72 Consumption 8	s6 Heart Diseases 5	48 Pneumonia 5	77 Kidney Discases. 4	3 Cholera Inf'm	457 Apoplexy 4	92 Brain Diseases 3	276 Aecidents	:	241 Bronchitts	228 Enteritis	219 Old Age	212 Diphtherla
1899.	Whole Number.7.45	Consumption 97	966 Pneumonia 68	701 Heart Diseases 648 Pneumonia	Kldney Diseases, 47	Cholera Inf'm 45	506 Apoplexy 45	336 Cancer 22	295 Accidents 27	292 Brain Diseases 267 Cuncer	290 Bronehitis 2	255 Old Age 2	250 Influenza 2	238 Enteritis 2
1900.		Consumption 987	onla	Discases	Cholera Inf'm 55			:	:				:	
1901.	Whole Number.7,966 Whole	Consumption 990	Pneumonia 742 Pneum	Heart Diseases 685 Heart	Kldney Diseases. 505 Cholera Inf'm	Apoplexy, etc 499 Kidney Diseases.	Cholera Inf'm 401 Apoplexy	Accidents 346 Accidents	Enteritis 343 Bronchitis.	Caneer 306 Caneer	Brain Diseases 281 Brain	Old Age 231 Influenza	Bronchitts 232 Old Age	Diphtherla 177 Enteritls

* 30 years, 1858 to 1887, inclusive.

The number of deaths from consumption, in 1901, was 3 more than in 1900.

From pneumonia there was a decrease of 224 deaths from that of the previous year. The fatality from pneumonia however, has been slowly increasing, in proportion to whole number of deaths, for the last twenty years.

From diseases of the heart there was a decrease of 16 deaths from 1900. Diseases of the heart have been steadily increasing as causes of death, the mortality in 1900 being the largest ever recorded in this State.

From kidney diseases there was a decrease of 11 from the number in 1900.

There were 306 deaths from cancer in 1901, an increase of 14 over the number in 1900.

COMPARATIVE STATISTICS AND COMMENTS.

There have been presented in the preceding pages, numerically and in tabular form, the different causes of death in Rhode Island, in 1901, with various summaries and illustrations. In Tables VII and VIII they were presented at considerable length, in various specific terms; in Table IX more or less grouped in a general nosological arrangement; and in Table X the same for a period of forty-seven years.

In Table VII the number of deaths from each cause and of each sex is shown, for each month in the year, and the nativity and varentage of the decedents from each cause during the year.

In Table VIII the number of decedents of each sex, from each cause, in the different periods of life, is given.

In Table IX, with the Bertillon classification and percentage of causes of death, the number of each general cause, in each division of larger population, is given.

In Table X a nosological summary of causes of death for the whole State, in each of forty-nine years, is given, arranged by the Bertillon system.

Table LX is a compend, in part, of Tables VII, VIII, and IX, previously alluded to, and contains the particulars of the most important causes of death in 1901, and comprises the principal causes which will be commented upon in the following pages:

Deaths in Rhode Island from Twenty-six Principal Diseases.

Whooping Cough.	17	9 11	င္ လ	8000-80 : HHH8H
Stomach Diseases.	16	£ £	36 55	000000040041
Scarlet Fever.	21	110	G 21	ः ः सम्भासकः व्यक्त
Rheumatism.	53	s 51	20	<u>य : अम्यशशः : अय्य</u>
Pneumonia,	742	400 342	324 418	22 25 25 25 25 25 25 25 25 25 25 25 25 2
Pleurisy.	24	10	11.00	<u>ы4хыны :4-н : н</u>
Old Age.	234	83 151	747 87	0201222121222
Measles.		_0 <u>r</u> o_	_ 25 55_	01 H : : : : : : 61 70
Liver Diseases.	001	54 46	31 69	1101112511085
Kidney Diseases.	505	266	224	44250488524448
Influenza.	146	-3.2	67	88 4 21 4
Heart Diseases.	685	341 344	303 382	66 66 66 71 71 71 71 71 72 72 72 73 74 75 75 75 75 75 75 75 75 75 75 75 75 75
Fever, Typhoid.	103	2 4 2 5 5	34	048845885488
Enteritis.	3,43	55	110 233	21 00 00 00 00 00 00 00 00 00 00 00 00 00
Diarrhea and Dysentery.		£ 13	.8.5	
Diphtheria.	1.1	85.53	67	22 12 12 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Diabetes.	8	80 57	24 cc	044441200000
Croup.	24	113	17	0.400 m = H : H = 10 m
Consumption.	066	524 466	299	885 174 174 188 198 198 198 198 198 198 198 198 198
Cholera Infantum.	401	215	132	44991231664 28888888864
Сапсет.	306	97	1 4. 161	2222474153888
Bronchitis.	232	121	88 77	62 24 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Brain Diseascs.	281	28 143 14 138	_85 85	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Appendicitis.	27	22 7	12.7	115500000440
Apoplexy and Paralysis.	499	223 276	253 246	5544455458 611158858476
Accidents.	346	79	123 223	85521 8521 8521 8521 8531 8531 8531 8531 8531 8531 8531 853
	Total Mortality	SEX { Males	Parentage { Native	January. February Rebruary March April. May June June August. September October November December

TABLE LX.--Concluded.

М рооріпк Сопки.		:-:::2-:
Stomach Diseases,	4 2 - 31 12 22 4 22 12 4 22 13	<u></u>
Scarlet Fever.	<u></u>	:::::::::::::::::::::::::::::::::::::::
Rheumatism.	31H : 314 33 34 35 HH :	: 01 : 10 : 00 <u>F</u> 21 :
8		488884 48884 48884
Pneumonia.	n - :	
Pleurisy.		8 2 1 2 8 8 8 1 2 2 3 1 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1
Old Age.	4 · · · · · · · · · · · · · · · · · · ·	:-::014-00-
Measles.		
Liver Discases.		
Kldney Diseases.	1	08 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Jufinenza.	5 2 1 4 2 2 3 4 3 2 3 4	
Heart Diseases.	130 c c c c c c c c c c c c c c c c c c c	8 9 7 7 8 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8
Fever, Typhoid.	2444625c24 : :	1- ကလောည်းသည်သည
Enteritis.	951 6 6 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	340 te2144
Diarrhea and Dysentery.	## : - # : -	801-31-663
Diphtberia.	014 0 2 14 21 23 1 1 22 1 1 1 1 1 1 1 1 1 1 1 1 1	950-2-225
Diabetes.	-31232 C C C C C C C C C C C C C C C C C C	:40104010800
Croup.	21 23	- 0 · · + · · · · · · · · · ·
Consumption.	11 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	8254246484
Cholera Infantum.	0 : : : : : : : : : : : : : : : : : : :	58c148F524
('ancer.		8552725336 8552725336
Bronchitis,	4 - : - : - : - : - : : - : : : : : : :	5 . 4 E 4 8 9 8 5 5 5
Brain Diseases.	67.000387700	-8-885885
Appendicitis,	. 4 2 2 5 2 2 4 5 1 : : :	: : - : 21 23 21 21
Apoplexy and Paralysis.	- : : - - 1 2 2 2 2 2 2 : - : - : - : - : - : - : -	3482354224
Accidents.	1 2 2 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2	212 80 141 141 181
,	CUnder 5 years 5 to 10 years 10 to 15 years 15 to 20 years 20 to 30 years 30 to 40 years 50 to 60 years 60 to 70 years 70 to 80 years 80 years and over. Not stated	Bristol County Kent County Newport County Towns Newport City Providence County Towns Central Falls Pawtucket Providence City Woonsocket Woonsocket Washington County
	AGES	500

DEATHS FROM ACCIDENTS.

The number of deaths from accidental causes in Rhode Island, in 1901, was 346.

Among the deaths from accidents there were 33 from asphyxia; 4 by bicycle; 36 by burns and scalds; 57 by drowning; 11 by electric car; 3 by electrical shocks; 4 by elevator; 14 by exposure to cold and storm; 61 by falls; 5 by firearms; 37 by insolation; 6 by poison; 33 by railroad; and 42 by various other accidents.

Asphyxia.—By bed-clothing or overlaying, 11 (infants); by illuminating gas, 7 (adults); by carbureted water-gas from gas stove, 2 (adults); by smoke in burning house, 1 (child); by smoke from burning kerosene stove, 1 (adult); by hot air in room heated by gas stove, 1 (adult); by foreign substance in larynx or trachea, 6 (4 children, 2 adults); by anæsthesia (weak heart), 1; by chloroform during operation, 1; by ether narcosis during operation, 2. Total 33.

Bicycle.—Knocked down by bicycle, 3 (ages 10, 52, 65 years); in collision with team, 1 (age 17 years).

Burns and Scalds.—By bonfire, 5 (2 adults and 3 children); playing with matches, 6; by clothes taking fire from stove, 6 (2 adults and 4 children); from gas stove, 1 (adult); from plumber's furnace, 1 (child); explosion of powder while making fireworks, 1; explosion of kerosene lamp, 1 (adult); explosion of oil stove, 1 (adult); kindled fire with kerosene, 1; by upset kerosene lamp, 1 (child); upset hot water, 5 (children); upset hot coffee, 1 (child); by falling into hot water, 4 (children); in some manner unknown, 2. Total 36.

Drowning.—While bathing or swimming, 17 (of these, 13 were under 20 years of age); through ice, 10 (ages 1 at 6, 3 at 7, 2 at 9, and 1 at 10, 15, 21, and 40 years); by falling overboard from boats, 4 (adults); by capsized small boats, 2 (adults); by upset canoes, 2 (ages 14 and 29 years); from rocks while fishing, 2 (ages 10 and 49 years); while clamming, 1 (adult); by bursting of dam, 1 (adult); by falling into water while playing on bank or dock, 2; while playing in old boat or on raft, 2; found in water, circumstances unknown, 14. Total 57.

Electric Car.—Of the persons killed by electric cars, 3 jumped or fell from moving cars; 7 were struck by car while crossing track or lying beside it; and 1 in collision of car and lowgear. Total 11.

Electric Shock.—Shocked by electricity at electric-light works, 1; while turning on electricity in basements of their houses, 2. Total 3.

Elevator.—By falling into well, 2 (ages 13 and 16 years); by fall across hatchway, 1 (age 14 years); by being hurled through door of elevator onto floor, control of elevator being lost, 1 (age 16 years). Total 3.

Falls.—Downstairs or steps, 5 (ages 5, 45, 55, 70, 80 years); from building or staging, 8 (ages 23, 35, 4 from 40 to 50, 1 at 58, and 1 at 75 years); from windows, 3 (ages 7, 41, 81 years); on floor, ground or sidewalk, 30 (of these, 18 were over 60 years of age); on ice, 3 (ages 13, 70, 72 years); from railroad track into coalpocket, 2 (adults); from fence, 1 (child); from team, 1 (child); from apple-tree, 1 (age 78 years); from load of hay, 1 (age 68 years; from railroad bridge, 1 (age 72 years; down chute, 1 (adult); on barge while unloading coal, 1; into hold of vessel, 1; against stones in well, 1 (adult); on piece of timber, 1 (adult). Total 61.

Firearms.—By accidental discharge of shotgun in hands of others, 2 (ages 5 and 13 years); random shot by person who was shooting at rats in barn, 1 (age 8 years); shot through lung while out shooting in a canoe, 1 (age 14 years); shot during the war (necrosis of femur), 1. Total 5.

Poison.—Oxalic acid administered to child for rochelle salts, 1; strichnia tablets mistaken by child for candy, 1; swallowed toothache mixture containing iodine, 1 (child); excessive dose of morphine, 1 (adult); methyl alcohol drank as a beverage, 1 (adult); overdose of medicine given child for whooping cough, 1. Total 6.

Railroad.—Of the 11 employees who were killed, 2 fell from moving cars, 1 was struck by overhead bridge, 2 were coupling cars, 2 (crossing-tenders) were struck by trains while flagging crossings, 1 (section-hand) asleep so near the track that he was struck by passing train, 1 (interlocker) was run over while crossing track, 1 (lamplighter in freight-yard) was struck by engine while lighting switch-lights, and 1 (freight conductor) stepped off car directly in front of another train. Of the remainder, 4 persons

while attempting to cross tracks were killed at grade crossings by crawling under gates which were down, 3 attempted to board moving trains, 2 by alighting from moving trains, 1 fell from train, 9 were walking on or crossing tracks, 1 was crossing track on a bicycle, 1 was lying on track, and 1 child was struck by engine while playing on track. Total 33.

Accidents, Various.—Blasting accident (premature explosion of dynamite), 1; 2 by explosion of steam cylinder; thrown from carriage or wagon, 7 (adults); run over by heavy teams, 5 (4 children and 1 adult); crushed between tipcart and wall, 1 (age 11 years); knocked down by horse, 2 (ages 4 and 56 years); kicked by horse, 2 (adults); dragged by cow, 1 (child); crushed by falling building, 2; crushed by roof of building, 1; by falling barrel of beer, 1; under pile of horseshoes, 1; by heavy box, 1 (child); by falling derrick, 1; by stone from derrick, 1; by falling plank, 1; by breaking of stone-crusher, 1; twisted about capstan, 1; penetrating wound at base of brain made by sharp-pointed wire, 1; wound made by rusty iron (septicemia resulting), 1; fractured skull (during hypnotic performance) by heavy stone falling on head, 1; severed femoral artery (hemorrhage), 1; dog-bite of finger (septicemia). 1: bruise of foot (gangrene), 1; unspecified injury to spine, 1; unspecified injury to head, 2; unspecified accident, 1. Total 42.

Comparison of the number of deaths from street-car accidents during the last five years presents the following figures:

	Struck by cars.	Collision of cars.	Otherwise.	Total.
1897		1	2	7
1898	6	0	1	7
1899	3	1	1	5
1900	8	6	5	19
1901	7	1	3	

As a result of inattention on the part of those having the care of children, 4 fell into hot water while the attention of the mother was engaged elsewhere, the receptacles containing the hot water being left sufficiently convenient for the children to climb or fall into them; 6 others upset, by pulling over upon themselves, hot water or coffee; 1 upset a kerosene lamp; 9 children received burns which caused death as the result of playing with bonfires or matches.

It is interesting to note the large number of cases resulting

from fractures of the long bones as the sequence of a slight fall. This is especially noticeable in fractures of the hip in old people. Out of the 61 who died from the result of falls, 27 were over 60 years of age.

Of the whole number of deaths by accidents, 267 were males and 79 were females; 123 were of native and 223 were of foreign parentage, or 35.5 per cent. of native to 65.5 per cent. of foreign.

Of the sexes, the proportion was 77.2 per cent. of male decedents to 22.8 of female decedents.

In regard to the periods of life, the decedents from accidental causes were divided as follows: under 5 years, 61; 5 and under 10, 29; between 10 and 20, 34; between 20 and 40, 77; between 40 and 60, 75; over 60, 70.

In regard to sectional divisions of the State, 12 of the deaths from accidental causes were in Bristol county; 21 in Kent county; 18 in Newport county; 277 in Providence county; and 18 in Washington county.

The whole number of deaths from accidental causes, in 1901, in proportion to the whole number of deaths in the State, was 43 in every one thousand. The number in proportion to the whole population was .79 in every one thousand.

The number of deaths by accidents in each division of the year was as follows:

First Quarter	71	Third Quarter	123
Second Quarter	76	Fourth Quarter	76
First half	147	Second half	199
Whole year		846	

In the following Table may be found the number, sex, parentage, and locality of mortality from accidents, for thirty-six years, ending December 31, 1901:

TABLE LXI.

Mortality in the State from Accidents, with the Percentage of the Whole Number of Deaths; Sex, Parentage, and Locality, for thirty-six years, from 1866 to 1901, inclusive, in three periods of five years each, and for each of the last twenty-one years.

					VARI	ETIE	s.				sı	EX.		ENT-		STA	TE D	ivis	ons.	
YEARS.	Whole Number.	Burns and Scalds.	Drowning.	Falls,	Fractures and Contusions.	Poisoning.	Railroad.	Suffocation.	Various and Un- specified.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
5 years, 1866-1870.	490	77	124	89		14	43		143	2.18	375	115	238	252	22	34	46	187	162	39
5 years, 1871-1875.	610	78	164	90		21	71		186	2.97	493	117	283	327	26	46	50	200	240	48
5 years, 1876-1880.	607	75	166	69		28	58	14	197	2,72	450	157	249	358	17	53	47	178	281	31
1881	155	16	29	19		9	20	19	43	3 09	107	48	62	93	5	17	12	60	56	5
1882	178	17	40	31		6	16	8	60	3.50	130	48	72	106	5	9	15	60	80	9
1883	153	18	27	21		6	16	12	53	2.83	117	36	61	92	4	8	9	63	66	3
1884	197	20	41	31		7	16	11	71	3.82	147	50	90	107	5	19	14	65	76	18
1885	173	19	42	25		9	15	9	54	3.20	135	38	72	101	5	6	8	58	83	13
1881-1885.	856	90	179	127		37	83	59	281	3.26	636	220	357	499	24	59	58	306	361	48
1886	190	23	58	19		6	20	9	55	3.25	141	49	84	106	16	11	16	62	72	13
1887	206	17	39	17	23	7	24	14	65	3.24	158	48	92	114	5	11	23	81	71	15
1888	190	27	46	18	8	12	25	8	46	2.87	145	45	63	127	4	6	14	70	88	8
1889	216	20	52	31	25	7	23	9	49	4.10	146	70	88	128	2	14	13	73	101	13
1890	250	20	71	32	26	11	31	12	47	3.60	199	51	99	151	7	17	24	75	111	16
1886-1890.	1052	107	266	117	82	43	123	52	262	3.29	789	263	426	626	34	59	90	361	443	65
1891	233	18	52	21	29	16	30	17	50	3.54	174	59	78	155	5	18	16	95	89	10
1892	309	21	48	33	60	20	29	8	90	4.18	225	84	115	194	8	13	21	100	158	9
1893	264	26	47	25	25	14	39	14	74	3,55	195	69	88	176	9	21	21	75	126	12
1894	234	28	52	29	20	8	36	21	40	3,27	189	45	74	160	6	24	18	88	81	17
1895	293	28	61	57	2	8	36	26	75	3.89	233	60	88	205	6	23	13	85	141	25
1891-1895.	1333	121	260	165	136	66	170	86	329	3.69	1016	317	443	890	34	99	89	443	595	73
1896	296	25	39	48		8	36	24	116	3.94	226	70	101	195	6	25	24	85	139	17
1897	263	41	40	64		7	24	22	65	3.70	197	66	94	169	12	15	22	87	115	12
1898	296	21	60	58		8	30	19	100	4.29	233	63	111	185	11	18	26	85	134	22
1899	276	28	45	61		7	38	31	66	3.70	217	59	109	167	9	16	30	82	125	14
1900	336	33	64	72		16.	26	29	96	3 81	254	85	110	226	15	30	12	101	159	19
1896-1900.	1467	148	248	303		46	154	125	443	3.88	1127	340	525	942	53	104	114	440	672	84
1901	346	36	57	60	18	6	33	33	103	4.34	267	79	123	223	12	21	18	102	175	18
Total, 36 years.	6761	732	1464	1020	236	261	735	369	1944	3.41	5153	1608	2644	4117	222	475	512	2217	2929	406

^{*} Exclusive of Providence city.

TABLE LXII.

Mortality in the State from Alcoholism, with the Percentage of the Whole Number of Deaths, Sex, Parentage, and Locality, for thirty-six years, from 1866 to 1901, inclusive.

	arths m.		SE.	Χ.	PAREN	TAGE.	ı	DIVISIO	NS OF	THE S	TATE.	
YEARS.	Number of Deaths from Alcohollsm.	Per cent.	Males.	Femules.	Nathve.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
years, 1866-1870	62	.40	53	9	32	30	5	6	6	18	25	2
years, 1871-1875	93	.45	73	20	37	56	2	6	9	25	48	:
years, 1876-1880	79	.35	52	27	25	51	2	4	6	18	45	
881	21	.51	17	ះ	5	19	1		1	7	14	
882	28	.58	16	12	8 1	20				9	18	
883	29	.54	17	12	7	22		1	1	10	16	
884	27	.53	19	8	10	17		1	4	9	12	
885	5.5	.41	16	6	6	16	2	1		11	7	
881-1885	130	.50	85	45	36	94	3	3	6	46	67	
886	12	.20	9	3	2	10	1		1	3	7	
887	16	. 25	14	2	4	12	2	5	5	5	4	
888	16	.32	10	6	5	11			5	5	9	
889	31	.50	23	8	12	19	2	1	1	13	14	
890	25	.37	20	5	8	17	2		• • • • • •	11	11	_
886-1890	100	.31	76	24	31	69	7	3	6	37	45	
891	29	.47	22	7	8	21	1	1	4	10	13	
892	36	.48	27	9	8	28	1		4	12	17	
893	44	.59	34	10	15	29		3	7	9	23	
894	39	.51	33	6	12	27	1	4	- 2	14	115	
895	24	.32	19	5	5	19				10	13	
891-1895	172	.48	135	37	48	124	3	s	17	55	82	
896	31	.45	28	6	7	27	1	2	6	10	14	
897	36	.51	26	10	10	26		1	5	11	15	
898	45	. 65	37	8	13	35		3	3	13	55	
899	34	.45	:26	8	9	25	1	3	4	9	16	
900	62	.70	47	15	12	50	1	2	- 8	12	42	_
896-1900	211	.56	164	47	51	160	3	11	21	55	109	
901	40	.50	35	5	13	27	2	2	3	15	17	
Total, 36 years	887	.44	673	214	273	614	27	43	74	269	438	١,

^{*} Exclusive of Providence elty.

APOPLEXY AND PARALYSIS.

There were 499 deaths from apoplexy and paralysis in Rhode Island, in 1901, according to the returns. The number reported is 7 less than in the year 1900.

The whole number of deaths from these two causes represents 6.27 per cent. of *all causes*, and a proportion of 1.14 to every one thousand of the population.

Of the sexes, there were 223 males and 276 females.

Of parentage, 253 were of native parentage, and 246 of foreign. As observed in previous reports, the older native population has steadily been, in a very large proportion, more prone to apoplexy

than the foreign, or the children of the foreign, population.

It will be observed that the proportion of deaths from apoplexy and paralysis, to the whole mortality from all causes, has steadily increased from about three and three-quarters per cent., during the first quinquennial (1866–1870), to nearly six per cent. during the quinquennial (1896–1900).

The following Table will present the sex, parental, and local relations of apoplexy and paralysis, as causes of death, during the last thirty-six years (Providence city not included in the Providence county statement):

Table LXIII.

Mortality in the State from Apoplexy and Paralysis, 1866 to 1901, inclusive.

	for			SE	х.	PAREN	TAGE.	h	MAINTE	SS OF	THES	TATE.	
YEARS.	Total Deaths for Year.	Apoplexy and Paralysis.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.	Providence Chy.	Washington County.
866-1870	15,391	574	3.73	251	200	464	110	52	43	77	145	224	3
871	3,341	156	4.66	78	83	113	43	10	17	15	40	61	13
872	4,247	125	2 97	62	63	96	29	17	9	10	27	52	10
873	4,403	134	3.04	59	75	109	25	9	8	17	26	. 57	1
874	4,229	156	3.69	84	72	120	36	14 *	10	16	42	59	1
875	4,317	166	3.61	79	87	133	33	7	13	17	46	75	
871-1875	20,540	737	3.59	357	380	571	166	57	57	75	181	304	6
876	4,116	165	4.01	79	86	130	35	13	11	13	45	68	1
877	4,450	181	4.07	87	94	123	58	10	10	16	52	74	1
878	4,441	188	4.23	104	84	145	43	12	16	21	58	66	1
879	4,479	550	4.92	114	106	146	74	12	9	29	71	89	1
880	4,829	215	4.67	109	106	157	58	18	13	22	71	78	1
876-1880	22,308	969	4.77	493	476	701	268	65	59	101	297	375	3
881	5,016	244	4.86	116	128	170	74	17	15	25	70	101	1
882	5,074	265	5.22	139	126	168	97	15	29	24	65	117	1
883	5,282	275	5.24	138	137	192	83	11	28	90	75	118	2
884	5,141	298	5.80	135	163	176	122	21	14	28	108	105	2
885	5,389	289	5.38	144	145	183	106	16	15	28	99	110	1
881-18-5	25,902	1,371	5.29	672	699	589	480	80	104	127	417	651	5
886	5,849	333	5.70	173	160	230	103	11	27	32	108	120	3
887	6,340	328	5.17	161	167	213	115	21	27	23	101	128	1
888	6,594	367	5.41	164	203	234	133	29	26	29	113	137	5
889	6,259	323	5.17	140	183	201	119	23	82	28	101	106	1 8
890	6,934	311	4.91	168	173	206	135	21	21	23	110	144	:
1886-1890	31,976	1,692	5.29	806	886	1,087	605	105	133	135	533	635	15
891	6,620	335	5.08	160	175	207	128	17	29	32	118	118	1
892	7,396	363	4.29	176	186	195	167	12	59	39	124	134	1
893	1		5.47	206	201	227	180	21	28	26	138	171	1
894	7.160		6.22	231	214	243	202	19	33	40	155	165	1
1895	7,535	417	5,53	199	218	238	179	18	29	80	150	158	1 -
1891-1895	36,151	1,966	5.71	972	994	1,110	856	87	148	167	685	741	18
1896			5,58	199	550	235	184	20	30	42	146	141	
1897	7.110		6 70	229	240	263	206	13	3:1	40	175	184	1
1898			6.02	201	213	245	171	17	80	48	186	152	1 5
1899			6.13	210	247	230	227	19	32	36	154	179	1
1900	8,823	506	5.74	248	358	275	231	18	38	49	175	189	-
1896-1900	. 87,500	2,267	6.00	1,089	1,178	1,218	1,019	87	163	215	780	843	17
1901	. 7,960	499	6.27	223	276	253	216	26	45	51	155	181	4

^{*} Not including Providence city.

TABLE LXIV.

Ayes of Decedents from Apoplexy and Paralysis, in each of the last thirty-six years.

				Peri	obs of 1	JIFE.		_	
YEARS.	Under 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Not stated.
1866	1	1	7	16	9	24	27	7	
867	2		6	6	15	38	40	17	
868	2	3	3	11	16	27	31	16	
869	1	1	5	12	20	28	34	15	
870	4	1	10	9	12	33	41	20	
871	3	4	7	14	91	46	45	15	
872	1	4	5	17	50	26	41	11	
873	2	3	4	14	22	35	37	16	
874	1	2	9	9	30	39	40	25	
875	6	2	8	19	23	40	45	22	
876	4	4	4	13	25	43	49	23	
877	1	2	9	12	24	50	61	22	
878	4	5	7	14	41	40	53	26	
379	4	6	11	18	27	57	59	38	
880	1	2	8	18	21	59	70	34	
881	1	7	11	20	36	55	70	42	
882	4	5	14	28	41	57	77	38	
883	\mathbf{s}	4	11	19	45	56	83	49	
384	10	7	16	21	32	68	95	45	
885	8	5	7	25	29	76	94	44	
886	7	8	10	25	52	65	112	51	
887	13	6	13	26	50	90	96	35	
888	10	4	18	29	61	85	100	60	
889	6	6	11	36	45	87	92	39	
890	7	5	13	29	52	84	100	50	
891	4	6	15	24	61	88	90	47	
sgg	3	6	17	40	60	91	95	49	
893	13	6	19	45	62	110	108	43	
894	12	5	16	39	88	108	111	65	
895	15	2	24	39	76	101	106	63	
896	1	7	17	34	76	118	110	55	
897	3	3	12	37	77	136	144	57	
898	3	8	12	37	75	108	117	54	
899	5	6	21	34	73	118	118	81	
900	6	5	19	42	97	134	131	71	
901	8	4	11	32	96	133	137	78	
	46.	45							
'otal	174	152	410	863	1,610	2,553	2,859	1,423	

Appendictes.

From a greater perfection in diagnosis of disease of the abdominal viscera, the disease known as appendicitis has received greater attention. This was probably reported in previous years under the head of diseases of the bowels, intussusception, or peritonitis.

During 1901, there were 42 deaths from appendicitis reported, and of this number operations were performed in 27 cases.

As there were 20 deaths from peritonitis in 1901, this would represent sixty-eight per cent. of the combined numbers.

Of the 42 cases of appendicitis, 28 were males, and 14 were females; 27 were of native and 15 of foreign parentage.

Brain Diseases.

The number of decedents from diseases of the brain proper, in 1901, was 281.

This number represents 3.52 per cent. of all causes, and a proportion of .64 to every one thousand of the whole population.

Of the 281 decedents, 143 were males and 138 were females.

In regard to parentage, 103 were of native and 178 of foreign parentage.

The deaths in the different seasons of the year were as follows:

First Quarter 75	Third Quarter 86
Second Quarter 57	Fourth Quarter 63
First half 132	Second half
Whole year	

Brain diseases occur largely in children. Of the 281 decedents from those causes, in 1901, 169 were under five years of age, and 14 were from five to ten years of age.

The following Table will present the statistics of mortality from diseases of the brain, for thirty-six years:

TABLE LXV.

Mortality in the State from Brain Diseases, with the Percentage, Sex. Parentage, and Locality, for thirty-six years, from 1866 to 1901, inclusive.

	aths		SE	х.	PAREN	TAGE.		DIVISIO	NS OF	THE S	STATE.	
YEARS.	Number of Deaths from Brain Diseases.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington
1866-1870	465	3.02	249	216	274	191	21	24	34	139	255	2
1871-1875	607	2.95	331	276	358	249	12	32	39	167	337	2
1876	150	3.64	92	58	89	61	3	11	7	39	85	
1877	160	3.59	88	72	91	69	3	7	11	49	85	
1878	142	3.19	75	67	76	66	1	13	12	45	68	
1879	163	3,65	82	81	88	75	3	13	15	51	75	
1880	164	3.39	87	77	89	75	3	6	12	56	81	
1876-1880	779	3.49	424	355	433	346	13	50	57	240	394	2
1881	186	3.69	103	83	85	101	7	11	14	58	91	
1882	181	3.50	93	88	92	89	4	10	10	71	80	
1883	187	3.54	96	91	100	87	8	14	15	52	94	
1884	148	2.88	90	58	77	71	4	9	8	41	83	
1885	189	2 51	98	91	94	95	2	11	20	53	100	
1881-1885	891	3 44	480	411	448	443	25	55	67	275	448	2
1886	182	3,09	108	74	84	98	4	14	13	69	78	
1887	203	3.21	120	83	103	100	8	9	14	75	95	
1888	212	3.21	114	98	109	103	4	19	12	76	90	1
1889	189	3.58	91	98	96	93	5	12	17	72	78	
1890	217	3.13	113	104	119	98	7	13	17	90	85	
1886-1890	1,003	3.14	546	457	511	492	28	67	73	382	426	2
1891	222	3 36	135	87	108	114	8	19	19	93	78	
1892	246	3.33	130	116	122	124	8	22	27	96	83	1
1893	257	3.46	139	118	116	141	12	17	23	100	98	
1894	221	3.09	122	99	93	128	4	24	13	82	84	1
1895	258	3.42	123	135	126	132	14	25	22	81	105	1
1891-1895	1,204	3.33	649	555	565	639	46	107	104	452	448	4
1896	299	3.98	152	147	136	163	10	24	38	139	79	
1897	328	4.61	179	149	151	177	7	26	30	178	78	
1898	327	4.73	176	151	131	196	5	26	26	157	100	1
1899	267	3.58	143	124	117	150	8	16	20	143	77	
1900	290	3.29	161	129	126	164	3	26	34	151	69	
1896-1900	1,511	4.00	811	700	661	850	33	118	148	768	403	4
1901	281	3.52	143	138	103	178	7	25	29	127	90	
Total, 36 years	6,741	3.04	3,633	3,108	3,353	3,388	185	478	551	2,550	2,768	20

^{*} Exclusive of Providence city.

Bronchitis.

The number of decedents, in 1901, whose deaths were reported as having been caused by bronchitis, was 232. This is 63 less than in 1900.

This number represents 2.91 per cent. of all causes, and a proportion of .53 to every one thousand of the population.

Of the 232 decedents, 111 were males and 121 were females; or at the rate of 92 males to each 100 females.

In relation to parentage, 88 were of native and 144 of foreign parentage.

In regard to age, 124 of the decedents were under 5 years of age, 2 were between 5 and 20 years, 7 between 20 and 40 years, 10 between 40 and 60 years; and of the remaining 89 decedents, above 60 years of age, there were 59 deaths from chronic bronchitis.

During the first four months of the year the decedents from bronchitis numbered 127, during the last four months the number was 77.

The very large increase in the proportionate mortality from bronchitis, during the last twenty years, will scarcely fail to be noticed in Table LXVI.

The following Table will show various facts in relation to the mortality from bronchitis, for thirty-six years:

TABLE LXVI.

 $Mortality\ in\ the\ State\ from\ Bronchitis, thirty-six\ years, 1866\ to\ 1901, inclusive.$

	aths.		s	EX.	PARE	NTAGE.		DIVISI	ONS OF	THE	STATE	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington
1866-1870	99	.64	43	56	47	52	1	4	7	29	56	,
1871	24	.78	10	14	11	13		1	1	5	17	
1872	25	.65	10	15	11	14	1	1	1	6	16	
1873	27	.64	12	15	11	16			1	7	18	
1874	39	.96	22	17	12	27				6	32	
1875	57	1.39	32	25	29	28			1	21	33	
1871-1875	172	.84	86	86	74	98	1	2	4	45	116	4
1876	57	1.46	23	34	26	31		2		7	46	2
1877	- 69	1.62	32	37	35	34	1	1	1	22	44	
1878	80	1.89	30	50	37	43	1	2	6	22	48	1
1879 1880	62 91	1.47	31 49	31 42	31 44	31	1	1	5	21 21	34	1
	-					47		6	6		56	
1876–1880	359	1.61	165	194	173	186	4	12	18	93	228	4
1881	84	.67	48	36	39	45	1	1	2	25	53	2
1882	100	1.27	39	61	47	53	3	2	6	25	60	4
1883	111	2.10	56	55	51	60	5	2	3	42	57	2
1884 1885	118	2.29 3.08	58	60	40	78	6		8	42	62 76	
1881-1885	581	2.24	283	298	$\frac{91}{268}$	313	5 20	$-\frac{3}{8}$	-13 32	$\frac{71}{205}$	308	
1886	174	2.96								74		
1887	176	2.77	75 90	99 86	81 60	93 116	3	6	9 19	63	83 84	1
1888	228	3 45	105	123	79	149	3	4	17	110	88	6
1889	260	4.20	128	132	90	170	4	8	18	109	110	11
1890	275	4.01	140	135	116	159	5	4	15	107	138	6
1886-1890	1,113	3.48	538	575	426	687	18	26	78	463	503	25
1891	247	3.74	108	139	95	152	13	15	21	85	111	2
1892	308	4.16	147	161	117	191	5	15	21	130	130	7
1893	315	4.24	164	151	105	210	4	9	21	150	126	5
1894	254	3.55	112	142 •	82	172	4	15	11	98	120	E
1895	274	3.64	133	141	93	182	8	15	19	103	122	7
1891-1895	1,398	3.87	664	734	491	907	34	69	93	566	609	27
1896	276	3.68	143	133	101	175	8	19	9	112	116	12
1897	226	3.18	123	103	83	143	6	19	13	88	94	6
1898	236	3.42	109	127	76	160	6	14	11	87	103	15
1899	241	3.23	118	123	73	168	7	16	10	96	103	9
1900	295	3.34	143	152	116	179	6	30	22	101	127	9
1896-1900	1,274	3.37	636	638	449	825	33	98	65	484	548	51
1901	232	2.91	111	121	88	144		16	7	94	• 100	15
Total, 36 years	5,228	2.63	2,526	2,702	2,016	3,212	111	235	304	1,979	2,463	136

^{*} Exclusive of Providence city.

CANCER.

There were 306 decedents, in 1901, whose deaths were caused by cancer, according to the returns. The term cancer includes all the various kinds, and in whatever place located.

This number represents 3.84 per cent. of all causes, and a pro-

portion of .70 to every one thousand of the population.

The varieties of cancer, as reported, may be found in Tables VII and VIII, on pages 22, 23, 35, 36, and 37. They are classed in Table IX as follows: cancer of the buccal cavity, 4; cancer of the stomach and liver, 109; cancer of the peritoneum, intestines, and rectum, 36; cancer of the female genital organs, 59; cancer of the breast, 43; cancer of the skin, 18; cancer of other organs and organs not specified, 37.

In 1901, the deaths from cancer, in the several divisions of the year, were as follows:

First Quarter 79	Third Quarter 89
Second Quarter 75	Fourth Quarter 70
First half	Second half
Whole year	SU):

Sex.—Of the 306 decedents from cancer, 97 were males and 209 were females; or 32 males and 68 females in every 100.

Parentage.—There were 145 of native parentage and 161 of foreign.

The following Table will show the facts of mortality from cancer, in relation to sex, parentage, and locality, for thirty-six years:

TABLE LXVII.

Mortality in the State from Cancer, 1866 to 1901, inclusive.

YEARS.	Number of Deaths.		SEX.		PARENTAGE.		DIVISIONS OF THE STATE.						
		Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.	
5 years, 1866-1870	328	2.13	98	230	269	59	19	33	38	87	131	20	
1871	66	2.13	25	41	47	19		7	5	25	25	4	
1872	95	2.46	26	69	66	59	4	7	9	21	50	4	
1873	106	2.53	45	61	76	•30	4	6	12	32	44	8	
1874	87	2 13	23	64	67	20	4.	6	12	24	38	3	
1875:	95	2.31	24	71	- 63	33	3	6	7	25	49	5	
1871-1875	449	2.18	143	306	318	131	15	33	45	127	206	24	
1876	106	2.72	27	79	72	34	5	6	8	27	58	7	
1877	135	3.17	29	106	87	48	3	7	9	37	66	13	
1878 1879	119 125	2.82 2.96	. 38	81 86	79	40 55	5	11 6	8 9	37 28	48 66	10	
1880	125	2.72	45	80	73	52	5	10	12	26	68	4	
1876-1880	610	2.73	178	432	381	229	27	40	46	155	301	41	
1881	145	2.90	40	105	90	55	8	10	12	42	65	8	
1882	132	2.75	40	92	82	50	5	15	9	43	52	8	
1883	169	3.20	51	118	105	64	3	17	12	49	86	2	
1884	156	3.05	39	117	88	68	2	18	21	41	70	4	
1885	193	3.59	5≎	141	114	79	8	9	8	67	88	13	
1881-1885	795	3.07	222	573	479	316	26	69	62	242	361	35	
1886	162	2.77	42	120	75	87	6	11	9	37	87	12	
1887	159	2.50	49	110	96	63	8	5	10	49	80	7	
1888	193	2.93	67	126	128	65	9	10	12	57	88	17	
1889	189	3.03	65	124 109	104 92	85 73	4 14	10	13 13	57 46	82 74	23	
1890	868	2.41	$\frac{56}{279}$	589	495	373	41	10	57	246	411	67	
	177	2.67	48	129	104	73	8	11	15	46	83	14	
1891 1892	181	2.45	53	128	103	78	7	16	16	57	75	10	
1893	205	2.75	54	151	124	81	6	15	17	56	92	19	
1894	214	2.99	67	147	121	93	13	11	23	75	73	19	
1895	234	3.11	74	160	106	128	13	12	17	79	96	17	
1891-1895	1,011	2.79	296	715	558	453	47	65	88	313	419	79	
1896	226	3.01	61	165	117	109	6	21	12	81	89	17	
1897	254	3.57	77	177,	128	126	12	14	22	86	103	17	
1898	279	4.04	83	196	159	120	18	18	24	75	119	25	
1899	292	3.92	95	197	135	157	11	16	29	83	132	21	
1900	292	3.31	96	196	144	148	18	19	15	87	132	21	
1896-1900	1,343	3.55	412	931	683	660	65	88	102	412	575	101	
1901	306	3.84	97	209	145	161	6	13	35	90	142	20	
Total, 36 years	5,710	2.88	1,725	3,985	3,328	2,382	246	386	473	1,672	2,546	387	

^{*} Exclusive of Providence city.

CHILD-BIRTH.

Under the head of "Child-birth" are included, in this connection, whatever causes of death that may have occurred as the direct result of child-birth, or parturition.

The number reported in 1901 was 95, of which 33 were from the immediate effects of child-birth, including hemorrhage, rupture of uterus, etc., 10 from peritonitis, 21 from puerperal nephritis and convulsions, and 31 from puerperal fever or septicemia.

Of the whole number, 38 were of native and 57 of foreign parentage.

This number represents 1.19 per cent. of all causes, and a proportion of .22 to every one thousand of the population.

There were 4 less deaths from "child-birth" in 1901 than in 1900.

The following Table will present the various relations in regard to the mortality from child-birth, for thirty-six years, 1866-1901:

TABLE LXVIII.

Mortality in the State from Child-Birth, with the Percentage of the Whole Number of Deaths, Parentage, and Locality, for thirty-six years, from 1866 to 1901, inclusive.

	eaths irth.		PARENTAGE.		DIVISIONS OF THE STATE.						
YEARS.	Number of Deaths from Child-Birth.	Per cent.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.	
1806-1870	155	1.01	63	93	7	б	16	59	56	11	
1871-1875	245	1.19	111	134	7	21	12	76	110	19	
1876	48 46	1.24	21 18	27 28	3	3	1 5	18 17	23 17	3	
1878 1879	43 43	1.01 1.02	23 21	20 22	2	4	3 2	9	21 23	4	
1880	51	1.11	23	28	4	4	3	10	27	3	
1876-1880	231	1.04	106	125	14	18	14	60	111	14	
1881	60 50	1.28 1.03	26 18	34 32	1	1 5	3	22 16	29 27	1	
1883 1884	58 47	1.10 .91	26 17	32 30	1	5 3	9	14 19	27 18	2 4	
1885	47	.87	21	26		3	4	15	24	1	
1881-1885	262	1.04	108	154	2	17	20	86	125	12	
1886 1887	41 53	.70 .71	17 15	24 38		4 5	4	15 18	17 26	1	
1888 1889	51 41	.77 .65	13 14	38 27	· · · · · · · · · · · · · · · · · · ·	3 5	2	25 16	20 13	3	
1890	41	.58	12	29	3	4	4	10	17	3	
1886-1890	274	.86	92	182	4	24	18	99	117	12	
1891 1892	32 75	.35 1.01	8 29	24 46	1	3 9	3	8 24	19 29	9	
1893	57	.76	23	34		5	4 3	15	29	4	
1894 1895	72 55	1.01	15 16	57 39		8	3	25 18	32 30	4	
1891-1895	291	.77	91	200	1	28	10	90	139	23	
1896	50	.67	16	34		2	1	24	17	6	
1897	57	.80	18	39	2	8		21	22	4	
1898 1899	71 55	1.03	22	49 44	1	6	1 3	28 15	32 27	3 2	
1900	99	1.12	27	72	2	11	4	31	47	4	
1896-1900	332	.88	94	238	6	34	9	119	145	19	
1901	95	1.19	38	57		8	6	36	42	3	
Total, 36 years	1,885	.95	702	1,183	41	156	105	625	845	113	

^{*} Exclusive of Providence city.

CHOLERA INFANTUM.

The number of deaths from cholera infantum, according to the returns for 1901, was 401.

This number represents 5.03 per cent. of deaths from all causes, and a proportion of .91 to every one thousand of the population.

Of the 401 decedents, 215 were males and 186 were females.

Of parentage, 132 were of native and 269 of foreign parentage; or about 204 of foreign to every 100 of native parentage.

The mortality from cholera infantum, during 1901, was 1.5 per cent. less than during the year 1900.

As may be seen on the following page, the number of decedents from cholera infantum, during the thirty-six years from 1866 to 1901, inclusive, was 12,496.

The proportion to total mortality for the period of thirty-six years was 6.3 per cent.

There were 111 males to every 100 females among the decedents during the thirty-six years; and 164 decedents of foreign parentage to every 100 of native, during the same period.

The following Table shows the whole number of reported deaths from cholera infantum; the sex and parentage of the decedents; and the number in each of the larger divisions of the State, in each of the last thirty-six years:

Table LXIX.

Mortality in the State from Cholera Infantum, 1866 to 1901, inclusive.

YEARS.	Number of Deaths	Per cent.	SI	EX.	PARENTAGE.		DIVISIONS OF THE STATE.						
			Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington	
5 years, 1866-1870	745	4.84	403	342	352	393	39	44	46	245	324	4	
1871	172	4.82	85	87	82	90	14	12	12	59	62	1	
1872	391	8.71	195	196	167	224	16	16	21	157	151	9	
1873	285	6.19	148	137	165	120	17	14	16	120	99	, 1	
1874	265	5.86	140	125	115	150	4	12	5	84	134	:	
1875	318	6.97	156	162	155	163	20	16	20	108	136	1	
1871-1875	1,431	6.97	724	707	684	747	71	70	74	528	582	10	
1876	250	5.75	131	119	105	145	5	12	29	68	124	1	
1877	259	5.52	139	120	96	163	12	13	9	96	122		
1878	168	3.58	96	72	73	95	7	14	7	64	.71		
1879	161	3.43	88	73	71	90	8	16	21	51	59		
1880	247	5.12	123	124	109	138	13	11	10	93	100	1	
1876-1880	1,085	4.86	577	508	454	631	45	66	76	372	476	1	
881	240	4.54	130	110	102	138	10	22	14	75	102		
882	325	6.10	173	152	133	192	20	11	19	132	130		
883	242 325	4.37	124 177	118 148	104	138 186	12 10	7 12	22 26	88 114	108 144		
884	279	6.00 4.92	150	129	128	151	5	23	16	133	86		
881-1885	1,411	5.45	754	657	606	805	57	75	97	542	570	-	
886	377	6.14	179	198	143	234	4	29	15	194	120		
887	355	5.36	200	155	145	210	16	16	35	160	119		
888	467	6.78	239	228	184	283	18	35	28	219	149		
889	396	6.01	209	187	132	264	18	32	20	199	116		
890	582	8.01	282	300	202	380	19	57	33	245	209		
886-1890	2,177	6.81	1,109	1,068	806	1,371	75	169	131	1,017	713		
891	546	8.25	298	248	170	376	21	68	50	255	187		
892	633	8.56	336	297	210	423	18	77	43	281	201		
893 :	603	8.10	324	279	186	417	11	82	44	267	183		
894	496	6.93	243	253	162	334	13	76	25	225	130		
895	500	6.64	268	232	155	345	14	57	19	241	150	-	
891-1895	2,778	7.55	1,469	1,309	883	1,895	77	360	181	1,209	801		
896	545	7.26	313	232	165	380	5	62	38	277	148		
897	425	5.98	204	221	160	265	12	63	30	179	120		
898	468	6.78	240	228	163	305	14	62	28	211	144		
899	473	6.34	265	208	127	346	32	48	23	220	139		
900	557	6.54	311	246	207	350	19	60	47	281	125	i	
896-1900:	2,468	6.53	1,333	1,135	822	1,646	82	295	166	1,168	676		
901	401	5.03	215	186	132	269	6	38	20	187	146		
Total, 36 years	43.400	6.30	6,584	5,912	4,739	7,757	452	1,117	791	5,328	4,288	5	

^{*} Exclusive of Providence city.

CONSUMPTION.

The decedents from consumption, during 1901, numbered 990. The number is 3 more than in the preceding year.

This number represents 12.43 per cent. of all causes, and a proportion of 2.26 to every one thousand of the population.

Sex.—Of these 990 decedents, 524 were males and 466 were females; being about 89 female decedents to every 100 male decedents.

For the period of twenty years (1866-1885) there were nearly 124 females to every 100 male decedents from consumption, and a very considerable excess every year since, excepting in 1891, 1893, 1897, 1898, and 1901.

Parentage.—There were 299 decedents of native parentage and 691 of foreign; a proportion of 231 of foreign parentage to every 100 of native.

Season.—The largest number of deaths, 107, occurred in March; the next largest, 97, in May; the smallest, 71, in both August and September.

The number in each quarter of the year was as follows:

First Quarter 265	Third Quarter 216
Second Quarter 262	Fourth Quarter 247
First half	Second half
Whole year	990

Ages.—During 1901, of the 990 decedents from consumption, 276, or more than one-quarter, were between the ages of 20 and 30; and 204, or more than one-fifth, were between the ages of 30 and 40.

In order to show more concisely the relation of age to mortality from consumption, during 1901, the following age periods and numbers are presented:

Under 10 years of age	131
Between 10 and 20 years	99
Between 20 and 30 years	276
Between 30 and 40 years	204
Between 40 and 50 years	117
Between 50 and 70 years	133
Over 70 years	30
Not stated	
Total	900

The following Table shows the total deaths from all reported known causes, with the number and percentage of deaths from consumption of the same, in each of the large divisions of the State, and in the whole State, in each of the last eighteen years, and also the aggregate for a period of forty-one years, from 1861 to 1901, inclusive:

CONSUMPTION.

STATISTICS BY COUNTIES.

NUMBER AND PERCENTAGE.

FORTY YEARS.

Table LXX.—CONSUMPTION.—Number, Locality, and Percentage.

Locality.	1884	1885.	884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901	1887.	1888.	889.	890.	1891.	1892.	893.	894.	895.	896.	897.	898.	.899.	.000		Total 40 years, 1861-1900.
BRISTOL COUNTY.																			
Total deaths, stated causes.	199	38.	221	217	251	308	255	239	232	227	006	256	550	2:30	212	616	596	533	7,578
Consumption	22	12	83	03	31 X	20	50	11	651	$\frac{x}{2}$	10	3	177	c:		54	30	35	37.2
Percentage	10.50	6.48	6.48 10.35	9.23	9.22 11.15	9.63	11.85	1.11	7.11 12.50	7.93	5.00	5.00 11.33 12.	50.0	5.65 13.68	89.8	9.64	9.64 10.14 10.46	0.46	11.51
KENT COUNTY.																			
Total deaths, stated causes.	508	355	385	3+3	80 1	154	470	500	598	572	574	521	37.5	535	513	512	206	508	13,820
Consumption	53	45	37	+6	5.5	.5	S.	47	51	33	9+	,: +:	59	16	40	0.	9†	55	1,837
Percentage	13.431	12.70 11.	11.20	16.6	13.44	₹8.°	80.8	01.6	8.53	9.62	8.01	8.01 10.36 10.21	0.31	10.28	28 10.53	12.24	6.52	9.30	13,29
NEWPORT COUNTY.																			
Total deaths, stated causes.	103	408	3	435	458	0++	470	597	590	506	516	487	535	507	491	561	809	544	15,438
Consumption	7	7	5.5	7	33	33	51	13		35	9+	5.0	99	13	09	20	55	73.	1,819
Percentage	10.67 11	11.53	13.16	9.19	00.7	8.41	10.85	8.51	.63	6.95	8.91	11.5	12.11 12.41 10.85 12.32	0.8.5	2.32	8.91	8.55	10.11	8.40
PROVIDENCE COUNTY.*																			
Total deaths, stated causes.	1,723	1,918	$1,728\\1,918\\2,087\\2,345\\2,345\\2,346\\2,374\\2,344\\2,632\\2,632\\2,634\\2,536\\2,706\\2,826\\2,646\\2,826\\2,646\\2,381\\2,543\\3,080\\2,726$	2,345	3,465	,286	3,374	2,344	2,632	,634	3,536	3,796	,826	,646	3,381	2,543	3,080	2,726	65,064
Consumption	248	273	276	246	573	257	305	236	265	259	242	271	292	283	307	337	333	5337	8,949
Percentage	14.13	14.20	$14.13 \left[14.20 \right] 13.05 \left[10.49 \right] 11.07 \left[11.24 \right] 12.84 \left[10.00 \right] 10.07$	10.49	11.07	1.24	12.84	10.00	10.01	9.83	9.54	9.33	0.33	0.70	2.89	9.33 10.33 10.70 12.89 13.25 10.81		13.36	13.63

Table LXX.—CONSUMPTION.—Number, Locality, and Percentage.—Concluded.

Locality.	1884.	1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901,	1886.	1887.	1888.		890.1	891.	.768	893.	1894.	1895.	1896.	1897.	1808.	1899.	1900.		Total 40 years, 1861-1900.	
PROVIDENCE CITY.		-															-			
Total deaths, stated causes.	2, 227	2, 227 2, 157 2, 341 2, 630 2, 644 2, 495 2, 859 2, 615 2, 950 3, 127 2, 878 3, 055 2, 938 2, 796 2, 921 3, 153 3, 665 3, 425	2,341	2,630	2,644,2	,495 2	859	,615	2,950	3,127	878.5	3,055	2,938	2,796	2,921	3,158	3,665	3,425	81,560	
Consumption	34	348	368	55	362	515	394	347	1 1 1 1 1 1 1 1 1 1	31 31 31	32.5	394	198	17:	405	452	984	11.7	11,877	
Percentage	. 15.48 16.10 15.65 12.28 13.66 12.55 13.69 13.19 11.59 10.49 11.29 12.90 12.49 12.20 13.86 14.34 13.26 13.84	16.10	15.65	51	13.661	2.55.1	3.69	3.19	1.59	0.49	11.29	12.90	12.40	12.20	13.86	14.34	13.26	13.84	14.56	
WASHINGTON COUNTY.																				
Total deaths, stated causes.	279	307	531	351	368	100	316	307	366	306	104	368	 	175	367	8558	584	25	11,065	
Consumption	94	56	55	9+	00	50	33	21	?! **	21	55	31	500	08	55	56	9	7	1,635	
Percentage	16.28	16.28 17.93 17.52 13.10 13.58 15.68 10.38 13.61	17.52	3.10	3.581	5.681	0.381	3.61	588.7	8.	S. S.	8.70	9.19	8.03		8.45 10.90	0.30	9.20 11.22	14.78	
WHOLE STATE.																		-		
Total deaths, stated causes.	5,099	5,099 5,330 5,798 6,321 6,594 6,220 6,891 6,586 7,368 7,372 7,105 7,483 7,475 7,085 6,885 7,436 8,790 7,924	5,798	,321	3,594 6	9.750	9168,	5.586	.368	1,872	7,105	1,483	2,475	7,085	6,885	7,436	8,790	1,924	195,125	
Consumption	139	Z.	826	710	008	177	8552	07.	622	21	705	. 88	846	11	388	51.5	183	000	26,989	
Percentage	. 14.34 14.42 14.12 11.19 12.13 11.61 12.29 11.18 10.30	14.42	14.12	1.18	2.13	1.61	2.29	1.18	0.30	9.79	9.92	11.21	11.32	10.97	12.87	9.79 9.92 11.21 11.32 10.97 12.87 13.07 11.23 12.49	11.23	12.40	13.83	
				١	-								1					=	1	

* Exclusive of Providence city.

TABLE LXXI.

Mortality in the State from Consumption, with the Percentage of the Whole Number of Deaths, from all causes, and the Sex, Parentage, and Locality, in the Aggregate of Different Periods, 1866–1901.

	rom		SI	EX.	PAREN	STAGE.	1	oivisio	NS OF	THE S	TATE.	
YEARS.	Total Deaths from Consumption.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington
1866-1870	2,718	17.66	1,244	1,474	1,567	1,151	122	231	219	891	1,051	204
1871-1875	2,883	14.03	1,267	1,616	1,504	1,379	94	213	163	953	1,234	226
1876-1880	3,271	14.66	1,435	1,836	1,473	1,798	104	194	188	1,048	1,498	239
1881-1885	3,729	14.40	1,692	2,037	1,427	2,302	113	208	242	1,222	1,751	19
1886	826	14.12	382	444	308	518	23	43	57	276	368	59
1887	710	11.19	312	398	266	444	20	34	41	246	323	4
1888	800	12.13	391	409	284	516	28	55	35	273	362	5
1889	727	11.61	356	371	239	488	20	45	37	267	315	5
1890	852	12.29	422	430	280	572	31	38	51	305	394	3
1886–1890	3,915	12 24	1,863	2,052	1,377	2,538	122	215	218	1,357	1,762	24
1891	740	11.18	380	360	248	492	17	47	51	236	347	4:
1892	759	10.26	360	399	249	510	29	51	45	265	342	2
1893	722	9.72	364	358	230	492	18	55	35	259	328	5,
1894	705	9.85	337	368	214	491	10	46	46	242	325	3
1895	839	11.13	392	447	284	555	29	54	59	271	394	, 3
1891-1895	3,765	10.41	1,833	1,932	1,225	2,540	103	253	236	1,278	1,736	174
896	846	. 11.27	409	437	273	573	27	59	66	292	367	3
897	777	10.93	395	382	269	508	13	55	5 5	283	341	3
898	886	12.83	460	426	272	614	29	54	60	307	405	3
899	972	13.03	478	494	316	656	24	70	50	337	452	3
900	987	11.19	514	473	324	663	30	46	52	333	486	4
896-1900	4,468	11.82	2,256	2,212	1,454	3,014	123	284	283	1,552	2,051	17
901	990	12.43	524	466	299	691	25	55	55	337	474	4
 Fotal, 36 years	25,739	13.00	12,114	13,625	10,326	15,413	806	1,653	1,604	8,633	11,557	1,48

^{*} Exclusive of Providence city.

Consumption. Proportion of Deuths to Population.

The proportion of deaths from consumption to the *population* in the different localities of the State, during the last sixteen years, may be seen in the following summaries:

For five years, 1886 to 1890, inclusive.

	Persons,		In every 1,000
	One Death to every		of Population.
Bristol County	494	or	2.09
Kent County		or	1.85
Newport County		or	1.48
Providence County *	598	or	1.91
Providence City	356	or	2.82
Washington County	497	or	2.10
Whole State	420	or	2.40

For five years, 1891 to 1895, inclusive.

	Persons,	In every 1,000
	One Death to every	of Population.
Bristol County	or	1.74
Kent County	or	1.78
Newport County	647or	1.58
Providence County *	537or	1.91
Providence City	413or	2.57
Washington County	•or	1.34
Whole State		2.02

For five years, 1896 to 1900, inclusive.

	Persons, One Death to every		In every 1,000 of Population.
Bristol County	538	ōr	1.86
Kent County		or	1.77
Newport County	562	or	1.78
Providence County *		or	2.05
Providence City	388	or	2.58
Washington County		or	1.39
Whole State		or	2.17

^{*} Exclusive of Providence city.

1899.

*	Persons,	In every 1,000
	One Death to every	of Population
Bristol County	595	.or1.68
Kent County	487	.or2.05
Newport County	1,215	.or0.82
Newport City	529	or1.89
Providence County Towns	456	.or2.19
Central Falls		.or1.50
Pawtucket	422	or2.37
Providence City	367	.or2.73
Woonsocket	386	.or,
Washington County	681	.or1.52
Whole State		.or2.30
	1900.	
	Persons,	In every 1,000
	One Death to every	of Population.
Bristol County	438	or2.28
Kent County	652	or1.54
Newport County		
Newport City	490	or2.04
Providence County Towns	414	or2.42
Central Falls	673	or1.49
Pawtncket	503	or1.99
Providence City	361	or2.77
Woonsocket	434	or2.30
Washington County	604	.or1.66
Whole State	434	or2.30
	1901.	
	Persons,	In every 1,000
	One Death to every	of Population.
Bristol County		
Kent County		
Newport County	1,080	or0.92
Newport City	498	or2.01
Providence County Towns	434	or2.30
Central Falls	422	or2.37
Pawtucket	532	or1.88
Providence City	380	or2.63
Woonsocket	482	or2.07
Washington County	553	orí.81
Whole State	442	or2.26

There was an increase in the mortality from consumption, in 1901, as compared with the preceding year, in numbers, but not in proportion to the population.

CROUP.

There were 24 decedents from cronp, in 1901, as against 18 in 1900.

Sex.—Of the 24 decedents from croup, in 1901, there were 11 males and 13 females.

Parentage.—There were 7 decedents of native and 17 of foreign parentage.

Age.—There were 21 of the decedents under 5 years of age, and 3 of five years and under 10.

Season .-

First Quarter	8	Third Quarter	2
Second Quarter	5	Fourth Quarter	9
	-		_
First half	13	Second half	11
Whole year		24	

The following Table will exhibit various facts in relation to mortality from croup for thirty-six years:

Table LXXII.

Mortality in the State from Croup, from 1866 to 1901, inclusive.

	aths.		SI	EX.	PARE	NTAGE.		DIVISIO	ONS OF	тне в	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
1866-1870	227	1.47	112	115	96	131	6	13	19	82	99	8
1871-1875	367	1.79	198	169	164	203	13	30	13	131	169	11
1876	102	2.61	50	53	42	60	1	6		26	65	4
1877	95	2.23	48	47	34	61	4	3	1	47	40	
1878	93	2.20	45	48	43	50	14	3	7	25	39	5
1879	96	2.28	58	38	40	56	3	6	15	25	43	4
1880	66	1.45	32	34	27	39	3	. 3	4	20	30	6
1876-1880	452	2.03	233	219	186	266	25	21	. 27	143	217	19
1881	101	2.16	45	56	38	63	2	6	4	38	49	2
1882	77	1.60	41	36	32	45	1	2	6	33	32	3
1883	71	1.40	32	39	33	38	1	6	4	25	35	
1884	80	1.55	40	40	32	48	2	11	4	29	34	
1885	94	1.74	45	49	42	52	4	8	6	46	28	2
1881-1885	423	1.63	203	220	177	246	10	33	24	171	178	7
1886	90	1.53	45	45	39	51	2	18	12	24	32	2
1887	113	1.79	58	55	43	70	9	12	4	43	39	6
1888	79	1.19	43	36	34	45	4	2	7	34	27	5
1889	80	1.28	37	43	24	56	3	15	1	27	33	1
1890	83	1.19	53	30	28	55	2	14	2	32	31	2
1886-1890	445	1.39	236	209	168	277	20	61	26	160	162	16
1891	67	1.46	40	27	17	50	1	11	11	27	16	1
1892	89	1.20	52	37	44	45	1	10	21	21	33	3
1893	50	.67	29	21	13	37	4	11	3	25	7	
1894	32	.45	16	16	10	22	1	7	2	15	7	• • • •
1895	30	.40	14	16	9	21	·····	6	4	11	9	• • • • •
1891-1895	268	.84	151	117	93	175	7	45	41	99	72	4
1896	24	.32	16	8	5	19		4		12	8	
1897	17	.24	11	6	4	13		8		5	4	• • • •
1898	9	.13	4	5	3	6		2		4	2	1
1899	11	.15	3	8	4	7			2	5	4	
1900	18	.20	9	9	6	12		4		4	9	1
1896-1900	79	.21	43	36	22	57		18	2	30	27	2
1901	24	.30	11	13	7	17	1	8		8	6	1
Total, 36 years	2,285	1.15	1,187	1,098	913	1,372	82	229	152	824	930	68

^{*} Exclusive of Providence city.

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Diarrhea and Dysentery.

There were 96 decedents from diarrhoa and dysentery, in 1901. This number represents 1.2 per cent. of all causes, and a proportion of .22 to every 1,000 of the population.

Sex.—Of the 96, 43 were males and 53 were females, or a proportion of 81 males to every 100 females.

Parentage.—There were, of the 96 decedents, 35 of native parentage and 61 of foreign parentage, or a proportion of about 174 of foreign parentage to every 100 of native.

Age.—There were 34 of the decedents from diarrhoa and dysentery under 5 years of age, and there were 50 over 50 years of age, leaving 12 for all the 45 years between 5 and 50.

Locality.—Of the 96 decedents, 74 were in Providence county; 10 in Kent county; 8 were reported from Bristol county; 2 from Newport county; and 2 from Washington county.

Season.—Seventy-five of the deaths from diarrhoa and dysentery occurred during the months of July, August, September, and October.

The following Table will show the deaths from diarrhoea and dysentery, with the percentage, sex, parentage, etc., for each of 36 years, beginning with 1860:

TABLE LXXIII.

Mortality in the State from Diarrhaa and Dysentery, 1866 to 1901, inclusive.

	.2 1				1							
	aths		SE	х.	PAREN	TAGE.	1	DIVISIO	ONS OF	THE S	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County,	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
5 years, 1866-1870	677	4.40	353	324	323	354	26	46	89	215	254	47
1871-1875	580	2.60	317	263	305	275	27	46	23	183	289	12
1876	122	2.96	66	56	52	70	3	6	2	41	65	5
1877	142	3.19	64	78	73	69	s	6	9	54	55	10
1878	93	2.09	42	51	51	42	5	8	2	34	39	5
1879	97	2.17	48	49	47	50	9	6	10	27	42	3
1880	98	2.03	49	49	50	48	4	6	10	32	42	4
1876-1880	552	2.47	269	283	273	279	29	33	33	188	243	27
1881	119	2.37	56	63	54	65	2	4	3	47	57	6
1882	158	3.11	75	83	69	89	2	4	28	57	64	3
1883	182	3.45	86	96	88	94	7	7	16	74	75	3
1884	153	2.98	74	79	69	84	10	5	11	66	56	5
1885	120	2.23	61	59	51	69	7	6	6	62	35	4
1881-1885	732	2.89	352	380	331	401	28	26	64	306	287	21
1886	159	2.72	64	95	70	89	7	11	1	73	59	8
1887	199	3.11	107	92	70	129	6	16	4	92	72	9
1888	157	2.31	69	88	97	60	6	8	3	54	71	15
1889	159	2.54	73	86	67	92	1	12	17	71	50	8
1890	182	2.62	84	98	74	108	5	9	22	77	63	6
1886-1890	856	2.68	397	459	378	478	25	56	47	367	315	46
1891	143	2.16	69	74	51	92	4	15	13	48	58	5
1892	199	2.69	100	99	82	117	6	14	8	76	89	6
1893	159	2.14	79	80	56	103	5.	14	7	60	66	7
1894	124	1.73	61	63	36	88		8	4	59	43	10
1895	101	1.34	38	63	40	61	6	9	3	41	37	5
1891-1895	726	2.01	347	379	265	461	21	60	35	284	293	33
1896	89	1.18	49	40	40	49	2	5	8	39	28	7
1897	107	1.50	48	59	1 37	70	1	14	7	41	36	8
1898	98	1.42	53	45	33	65	2	14	5	32	40	5
1899	111	1.47	49	62	34	77		9	11	55	32	4
1900	112	1.27	49	63	48	64	6	18	8	40	31	9
1896-1900	517	1.37	248	269	192	325	11	60	39	207	167	33
1901	96	1.20	43	53	35	61	8	10	2	25	49	2
Total, 36 years	4,736	2.39	2,326	2,410	2,102	2,634	175	336	332	1,775	1,897	221

^{*} Exclusive of Providence city.

Diphtheria.

The number of deaths from diphtheria, in 1901, was 177, which was 13 less than in 1900.

This number represents 2.2 per cent. of all causes, or a proportion of .40 to every one thousand of the population.

Sex.—Of the 177 decedents, 92 were males and 85 were females.

Parentage.—There were 67 of native and 110 of foreign parentage, or a proportion of about 164 of foreign parentage to every 100 of native.

Season.—There were 59 deaths from diphtheria in the first quarter, 33 the second quarter, 30 in the third quarter, and 55 in the fourth quarter.

Age.—There were 120 deaths under 5 years of age, 43 between 5 and 10, 5 between 10 and 15, 2 between 15 and 20, and 7 above 20 years of age.

Locality.—Of the 177 decedents, 150 were in Providence county, 2 in Bristol county, 13 in Kent county, 10 in Newport county, and 2 in Washington county.

The following Table shows the mortality in the State from diphtheria for thirty-six years, beginning with 1866, also the percentage of deaths, the sex, parentage, etc.:

Table LXXIV.

Mortality in the State from Diphtheria, 1866 to 1901.

	er of uses.	eaths eria.		SE	х.	PAREN	TAGE.	DIVISIONS OF THE STATE.						
YEARS.	Whole Number of Deaths, all causes.	Number of Deaths from Diphtheria.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.	
1866-1870	15,391	181	1.18	83	98	103	78	5	28	30	40	44	34	
1871-1875	20,540	242	1.18	118	124	154	88	4	35	20	54	105	24	
1876	4,116	159	3.86	77	82	69	90	1	2	9	29	111	7	
1877	4,450	492	11.56	239	253	233	259	12	44	2	122	295	17	
1878	4,441	435	9.80	224	211	201	234	21	29	23	106	245	11	
1879	4,472	259	5.79	121	138	143	116	7	19	20	95	106	12	
1880	4,829	152	3,40	73	79	75	77	3	6	2	63	61	17	
1876-1880	22,308	1,497	6.71	734	763	721	776	44	100	56	415	818	64	
1881	5,016	216	4.63	106	110	118	98	10	16	8	53	116	13	
1882	5,074	101	1.99	48	53	55	46		3	4	29	48	17	
1883	5,282	95	1.88	39	56	45	50	1	7	3	26	54	4	
1884	5,141	119	2.31	65	54	47	72	8	1	9	39	58	4	
1885	5,389	99	1.83	47	52	48	51	5	5	6	39	37	7	
1881-1885	25,902	630	2.43	305	325	313	317	24	32	30	186	313	45	
1886	5,849	238	3.90	98	130	101	127	20	21	23	64	98	2	
1887	6,340	287	4.53	135	152	101	186	15	11	4	114	108	35	
1888	6,594	191	2.86	87	104	79	112	13	3	9	58	98	10	
1889	6,259	184	2.93	80	104	89	95	3	10	11	56	97	7	
1890	6,934	211	3.04	112	99	93	118	1	9	16	86	94	5	
1886-1890	31,976	1,101	3.44	512	589	463	638	52	54	63	378	495	59	
1891	6,620	102	1.50	52	50	48	54	2	7	6	40	47		
1892	7,396	89	1.20	48	41	44	45	1	1	8	23	39	17	
1893	7,440	157	2.11	75	82	57	100	1	11	13	67	65		
1894	7,160	133	1.86	74	59	61	72		3	8	72	47	9	
1895	7,535	340	4.51	166	174	145	195	3	7	6	221	94	5	
1891-1895	36,151	821	2.24	415	406	355	466	7	29	41	423	292	29	
1896	7,504	283	3.77	149	134	120	163	5	19	6	109	140	4	
1897	7,110	231	3.25	120	111	84	147	3	19	8	111	86	4	
1898	6,905	93	1.35	51	42	34	59		12	5	32	40	4	
1899	7,458	86	1.15	35	51	31	55	, 1	10	4	28	40	8	
1900	8,823	190	2.15	106	84	76	114	5	22	15	83	53	12	
1896-1900	37,800	883	2.34	461	422	345	538	14	82	38	363	359	27	
1901	7,966	177	2.22	92	85	67	110	2	13	10	66	84	2	
Total, 36 years.	198,034	5,532	2.79	2,720	2,812	2,521	3,011	152	373	288	1,925	2,510	284	

^{*} Exclusive of Providence city.

FEVER, MALARIAL.

The number of deaths, during 1901, from diseases classed as fever malarial, was 23. The number in 1900 was 21; in 1899 was 30; in 1898 was 31; in 1897 was 44; in 1896 was 42; in 1895 was 29; in 1894 was 26; in 1893 was 20; in 1892 was 36; in 1891, 31; in 1890, 42; in 1889, 40; in 1888, 71; in 1887, 85; in 1886, 44; in 1885, 30; 1884, 25.

Sex.—Of the 23 decedents from malarial fevers, in 1901, 11 were males and 12 were females.

Purentage.—There were, of the 23 decedents from malarial diseases, 7 of native parentage and 16 of foreign.

Season.—The deaths from malarial diseases occurred in the different seasons of the year as follows:

First Quarter	4	Third Quarter	8
Second Quarter	5	Fourth Quarter	6
First half	9	Second half	14
Whole year		23	

Age.—The number of decedents in the different periods of life was as follows:

Under 5 years of age	8
From 5 to 20 years of age	9
From 20 to 40 years of age	1
From 40 to 60 years of age	3
60 and over	2
	-
Total 2	3

Localities.—Bristol county, 1; Kent county, 1; Newport county, 2; Providence county, 17; Washington county, 2.

FEVERS, TYPHOID, ETC.

The following Table exhibits, for each of the last thirty-six years, the number and the percentage and the sex and parentage of the decedents from fevers returned as from typhoid, and the number in each division of the State:

Table LXXV.

Mortality in the State from Fevers, Typhoid, etc., 1866 to 1901, inclusive.

	aths		SE	x.	PAREN	TAGE.		DIVISIO	ONS OF	THE S	STATE.	
YEARS.	Number of Deaths	Per cent.	Males,	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
1866-1870	641	4.2	314	327	398	243	35	39	77	243	184	63
1871-1875	740	3.5	350	390	419	321	12	43	34	263	299	89
1876	126	3.0	65	61	71	55	5	9	13	44	33	22
1877	134	3.0	63	71	65	69	8	10	8	52	44	12
1878	150	3.4	68	82	77	73	13	13	6	59	47	12
1879	114	2.7	47	67	63	51	4	13	6	44	40	1
1880	158	3.4	74	84	94	64	8	12	5	66	52	15
1876-1880	682	3.1	317	365	370	312	38	57	38	265	216	68
1881	143	2.8	74	69	74	69	4	13	14	58	41	18
1882	229	4.7	111	118	100	129	6	11	5	56	145	(
1883	258	4.8	146	112	117	141	9	16	10	83	134	7
1884	165	3.2	83	82	78	87	7	7	12	66	64	9
1885	158	2.9	71	87	70	88	6	14	8	69	53	1
1881-1885	953	3.7	485	468	439	514	32	61	49	331	437	48
1886	169	2.9	78	91	76	93	6	8	11	66	70	8
1887	127	2.0	67	60	58	69	2	14	9	49	38	13
1888	235	3.6	125	110	88	147	20	24	14	66	102	1
1889	143	2.3	85	58	56	87	2	17	9	46	60	5
1890	107	1.5	58	49	39	68	7	8	5	37	43	,
1886-1890	781	2.5	413	368	317	464	37	71	48	264	313	48
1891	149	2.2	86	63	56	93	5	8	17	46	63	10
1892	133	1.8	75	58	55	78	5	12	9	49	51	1
1893	115	1.6	65	50	41	74	4	7	5	40	52	1
1894	159	2.2	93	66	46	113	5	13	13	56	70	:
1895	125	1.7	73	52	55	70	3	7	11	52	48	
1891-1895	681	1.9	392	289	253	428	22	47	55	243	284	30
1896	113	1.5	66	47	44	69	6	8	9	39	43	1
1897	66	0.9	43	23	. 33	33	4	4	4	25	23	
1898	76	1.1	49	27	23	53	2	3	11	20	39	:
1899	90	1.2	53	37	41	49	3	6	9	24	42	1
1900	127	1.4	70	57	51	76	4	6	23	43	39	15
1896-1900	472	1.2	281	191	192	280	19	27	56	151	186	33
1901	103	1.3	62	41	34	69	7	5	11	28	46	
Total, 36 years	5,093	2.6	2,614	2,439	2,422	2,631	202	350	368	1,788	1,965	380

^{*} Exclusive of Providence city.

During 1901, of the 103 decedents from typhoid fever, there were 62 males and 41 females.

During the period of thirty-six years, 1866 to 1901, inclusive, the proportions of the sexes of the decedents from typhoid fever in the State were 93 females to every 100 males.

Parentage.—There were 34 decedents from enteric fever, of native parentage, in 1901, and 69 of foreign parentage.

Season.—			
First Quarter	20	Third Quarter	20
Second Quarter	15	Fourth Quarter	46
	-		_
First haif	37	Second half	66
Whole year		103	

The following Table shows the number of decedents from fevers, in each division of ages, in each of the last thirty-six years, in the State of Rhode Island:

Table LXXVI.

Mortality from Typhoid Fever in Age Periods.

					PERI	ods or	LIFE				
		1		1	1	1	1	i I	1	1	1
YEARS.	Under 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Not stated.
1866	23	10	21	26	21	16	9	14	10		
1867	17	6	23	33	12	11	8	4	2	2	1
1868	10	7	10	21	8	8	10	5	5		
1869	10	8	14	28	9	7	9	8	6	2	
1870	26	13	31	46	19	25	8	8	8	2	1
1871	13	10	20	28	18	16	9	4	5	2	
1872	17	18	34	54	20	9	12	11	3	1	
1873	27	12	34	31	25	13	13	7	8	2	
1874	10	14	26	32	9	5	10	3	6	2	
1875	23	14	19	43	18	10	10	6	4		
1876	21	10	15	24	14	9	6	16	6	3	2
1877	22	13	18	36	20	8	5	7	2	2	1
1878	17	16	27	47	13	11	12	2	3	2	
1879	19	7	14	26	15	6	3	12	8	3	1
1880	25	12	24	43	23	12	10	5	3		1
1881	25	9	19	29	14	11	9	12	11	4	
1882	24	22	44	69	27	14	9	10	9	1	
1883	36	25	46	75	31	12	11	10	8	2	2
1884	24	13	19	47	22	9	12	10	5	3	
1885	35	12	16	25	26	11	11	12	6	4	
1886	29	9	25	41	20	14	17	8	5	1	
1887	24	8	16	31	16	10	5	8	4	4	1
1888	27	27	42	75	29	16	12	3	4		
1889	18	12	29	41	18	8	9	5	3		
1890	13	11	13	35	14	5	6	6	4		
1891	12	10	25	50	26	10	7	6	2		1
1892	10	11	18	42	20	15	10	6	1		
1893	6	7	16	43	15	10	10	6	2		
1894	18	8	31	57	21	12	6	3	2		1
1895	10	9	10	56	15	7	9	5	4		
1896	10	3	18	35	13	16	6	7	5		
1897	6	4	7	22	11	9	3	3	1		
1898.	8	5	8	23	21	9	1	1			
1899	17	15	ō 5	19	17	10	2	1	2	1	1
1900	13	9	17	44	23	12	6	2	1		
1901	8	4	12	25	29	16	5	3	1		
1001					20						
Total, 36 years	653	403	766	1,402	672	402	300	239	159	43	14

TABLE LXXVII.

Comparative Exhibit of the Percentage of Deaths from Typhoid Fever to Total Deaths from specified causes, in Six New England States, for twenty-six years, 1876 to 1901.

1876 1877 1878 1879 1880 1881 1882 1883 1885 1886 1887 1888 1889 1890 1891 1892 1893 1895 1896 1897 1898 1899 1900	9 2.0 3.6 2.2 1.5 2.2 1.8 1.6 2.2 1.7 1.5 0.9 1.1 1.2 1.4 1.3	2.4 2.6 2.5 1.9 1.7 1.8 1.9 1.7 1.7	0 2.1 2.2 2.4 1.9 2.4 1.3 1.4 1.7 1.4 1.9 1.8 1.2 1.2 1.3 1.0	5 2.5 2.2 2.7 1.6 1.6 1.4 2.5 2.0 1.7 1.6 1.8 1.7 1.9 1.9 1.6	1 2.3 2.2 2.2 2.2 1.9 1.8 1.7 1.5 1.6 1.4 1.5 1.8 1.4 1.8 1.2	2.2 2.2 2.2 2.3 2.0 1.8 1.8 1.8 1.1 1.3 1.3 1.9 1.9
1884	6. 61 6. 61 61 61 61 61 61 61 61 61 61 61 61 61		2.2	0.5 91 92 93 93 93 93	2.4 2.0 2.1	10.01
1881	20 20 20 20 20 20 20 20 20 20 20 20 20 2			6.5 8.4 8.1	6.9	8. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
578 1879 1880	6.2 7.2 6.3 6.0 6.0			3.4	2.3 1.9 2.5	1.8
1876 1877 18	 0.:	•		4 x	61	 9. 11. 11.
STATES	RHODE ISLAND. 3.0	Maine	New Hampshire	Vermont	Massachusetts	Connecticut

DISEASES OF THE HEART.

The number of decedents from the various forms of diseases of the heart, as reported in 1901, was 685. The number is 16 less than that of 1901.

This number represents 8.6 per cent. of all causes, and a proportion of 1.56 to every 1,000 of the population.

Sex.—There were 341 male decedents and 344 female decedents; a proportion of about 99 males to every 100 females.

Parentage.—Of the 685 decedents from diseases of the heart, in 1901, there were 303 of native parentage and 382 of foreign, a proportion of about 79 of native parentage to every 100 of foreign. Except in 1892, 1893, 1896, 1900, and 1901, it has been the invariable rule of the whole period of registration that the native population is more subject to heart disease than the foreign.

The following Table exhibits, for each of the last thirty-six years, 1866 to 1801, inclusive, the number and percentage, and the sex and parentage, of the decedents from diseases of the heart, and the number of the same, in each division of the State:

TABLE LXXVIII.

Mortality from Diseases of the Heart, 1866 to 1901, inclusive.

	aths		SE	х.	PAREN	TAGE.	1	orvisio	NS OF	THE ST	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
866-1870	590	3.83	308	282	895	195	22	48	48	184	262	26
871-1875	922	4.49	458	464	595	327	21	46	82	248	465	60
876	166	4.03	86	80	109	57	9	11	10	38	86	15
877	182	4.09	94	88	110	72	3	7	9	57	98	13
878	166	3.73	88	78	109	57	5	11	15	38	83	1
679	202	4.78	114	88	127	75	8	20	16	38	111	
880	231	5.03	125	106	146	85	9	2	29	59	104	
876-1890	947	4.25	507	440	601	846	34	70	79	230	477	5
881	264	5.65	131	133	154	110	9	21	24	73	121	1
882	255	5.31	116	139	162	93	8	16	23	55	142	1
883	325	6.20	167	158	179	146	8	27	30	70	172	1
884	285	5.60	135	150	163	122	6	16	25	87	139	1
885	349	6.48	162	187	198	151	13	27	25	94	159	
881-1885	1,478	5.71	711	767	856	622	44	107	127	379	733	1
886	330	5.20	152	178	184	146	12	20	18	82	168	1
887	406	6.40	205	201	240	166		21	36	123	193	1
888	436	6.56	196	240	240	196	11	22	40	122	210	3
889	460	7.85	233	227	258	202	19	31	39	143	199	1
890	405	5.84	222	183	219	186	15	49	27	114	172	-
886-1890	2,037	6.37	1,008	1.029	1,141	896	64	143	160	584	942	14
891	480	7.25	248	232	244	236	21	37	38	137	210	5
892	506	6.84	260	246	252	254	13-3	47	48	163	200	1
893	585	7.19	264	271	264	271	20	43	30	174	238	1
894	476	6.65	251	225	246	230	16	35	41	161	192	1 8
895	535	7.10	260	275	275	260	14	41	54	180	210	-
891-1895	2,532	7.01	1,283	1,249	1,281	1,251	98	200	211	815	1,050	16
896	556	7.41	294	262	266	290	19	40	38	189	231	1
897	570	8.02	305	265	295	275	9	38	42	200	230	1
898	549	7.95	295	254	282	267	17	42	44	171	237	1
899	648	8.68	314	334	334	314	20	56	72	190	267	
900	701	7.95	319	382	319	382	55	49	57	241	284	_
896-1900	3,024	8.00	1,527	1,497	1,496	1,528	87	225	253	991	1,249	21
901	685	8.60	341	344	303	382	20	46	60	245	273	4
Total, 36 years		6.16	6,143	6,072	6,668	5,547	385	885	1,020	3,676	5,451	71

^{*} Not including Providence city.

Sex.—Of the 12,215 persons deceased from diseases of the heart, in the last thirty-six years, 6,143 were males and 6,072 were females; or 101 males to each 100 females.

Parentage.—Of the 12,215 decedents, during thirty-six years, 6,668 were of native parentage and 5,547 of foreign. The proportions would, therefore, stand as follows: To every 100 of foreign parentage there were about 120 of native; or about 54 native and 46 of foreign parentage in every 100 deaths. This difference has been gradually diminishing. In 1901 there were 79 more deaths of foreign than of native parentage, or about 44 of native and 56 of foreign in every 100 deaths.

Diseases of the heart rank third in the order of causes in 1901.

The following Table shows the number of decedents from diseases of the heart, in each divisional period of life, in each of the last thirty-six years:

Table LXXIX.

Mortality from Diseases of the Heart, in Age Periods.

	PERIODS OF LIPE.												
YEARS.	Under 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Not stated.				
1866	18	8	14	17	10	23	21	4					
1867	, 11	11	10	13	22	16	27	4					
868	15	5	13	11	14	28	25	5					
869	21	4	14	18	20	22	21	7					
870	19	6	11	13	20	21	23	3					
871	9	12	10	19	23	36	28	6					
872	27	12	22	19	31	36	29	13	1				
878	19	11	28	18	25	35	42	9	1				
	20		26	21	27	50	40	12					
874		16				29	41	9					
875	14	16	25	20	32								
876	14	10	15	19	20	38	39	10					
877	15	11	50	18	27	45	33	13					
878	16	8	18	16	26	36	35	11					
879	19	9	13	25	33	51	36	16					
880	15	10	18	23	38	49	49	28					
881	32	13	26	33	37	49	53	21					
882	22	17	24	25	36	51	61	17					
883	39	13	21	33	52	65	76	26					
884	15	25	21	32	45	61	50	3:2					
885	38	13	24	42	61	69	78	24					
386	39	18	28	38	52	68	69	18					
887	52	30	23	35	61	79	87	39					
888	39	25	30	54	84	97	74	33					
889	45	25	37	45	69	85	118	35					
890	34	15	24	53	69	78	96	36					
		18	45	41	85	109	101	38					
891	40		32	59	98	111	104	31					
892	54	21					97	42					
893	55	27	48	68	81	116		35					
894	40	28	36	6-4	69	102	102						
895	33	20	44	57	82	137	111	51					
896	40	33	46	65	98	106	117	50					
897	40	34	43	68	74	145	117	49					
898	34	22	31	57	-91	134	130	50					
899	23	28	37	77	111	158	169	48					
900	47	32	49	61	130	164	164	52	1				
901	40	40	55	65	124	152	139	68					
Cotal, 36 years	1,053	646	981	1,342	1,972	2,646	2,602	945					

The results of thirty-six years of registration, with record of ages of decedents from diseases of the heart, show, in periods of twenty years each of life, the following percentages:

Under 20 years of age	8.6 per cent.
Between 20 and 40.	13.3 per cent.
Between 40 and 60	27.1 per cent.
Between 60 and 80	43.0 per cent.
Over 80	7.8 per cent.
Not stated	0.2 per cent.
_	
Total	00.0 per cent.

It will be seen that 43 per cent. of all the deaths from diseases of the heart were of persons over sixty years of age, and under eighty.

Diseases of the heart have acquired large importance as a cause of death. From 38.7 in every 1,000 deaths from all causes, in 1866, heart diseases have gradually increased to 86.0 in every 1,000 in 1901.

INFLUENZA.

The event, during the first four months of the year 1890, of a very extraordinary and perhaps unprecedented prevalence of a form of influenza, which was unlike that of ordinary occurrence in that it affected indiscriminately all the functions and nearly all the organs of the body, varying with the individuals attacked, and the re-appearance of the same, although in greatly lessened numbers, in 1891, warrants a continued notice not given previous to 1890 in the Registration reports to the affection so named.

The disease was, in 1890, mostly largely confined to the respiratory passages, and resulted in a largely increased mortality from bronchitis and consumption. During 1891 the disease was equally as severe, affecting in a larger measure the brain and other nerve centres, and the direct mortality was even larger than that of 1890. The prevalence was largest during the second quarter of the year, and again in December.

The increase in December of 1891 was followed by a sudden augmentation in the first four months of the following year, 1892, the greatest number of deaths, 198, occurring in January of 1892. The total for 1892 was 336, or about twice as much as for either of the previous years. In 1893 there were 84 deaths reported as resulting from influenza. This was 251 less than in 1892. In 1894

there were 166 deaths from influenza reported, an increase of 95 per cent. from 1893, and a decrease of over 50 per cent. from 1892. From influenza there were 115 deaths in 1895, in 1896 there were but 42 deaths, in 1897 there were 153 deaths, in 1898 there were 75 deaths, in 1899 there were 219 deaths, in 1900 there were 255 deaths, and in 1901 there were 146 deaths.

Sex.—Of the 146 deaths from influenza, in 1901, 55 were males and 91 were females, a proportion of 60 males to every 100 females.

Parentage.—The parent nativity of the decedents was 79 of native and 67 of foreign.

Season.—Of the 146 deaths from influenza, during 1901, 113 occurred in the first quarter of the year, 25 in the second, 1 in the third, and 7 in the fourth quarter.

Age.—There were 16 under 5 years of age, 5 from 5 to 20 years, 13 from 20 to 40, 24 from 40 to 60, 64 from 60 to 80, 24 from 80 years of age and over.

The following Tables will show the proportionate nativity, sex, and locality of the disease, for the past twelve years.

The greatest mortality appears to be among females, there being 153 females to every 100 males. The parentage appears to be nearly equally divided between native and foreign, there being 102 foreign to 100 native.

The largest number of deaths occurred in Providence city, but this is not out of proportion to the proportionate number and density of population.

Referring to the age periods, it will be seen that the greatest mortality occurred in the period from 70 to 80, there being 420, or 21.68 per cent. of the whole number of deaths from this disease. Taking the three decennials, including 60 to 90, we have 1,007 deaths, or 51.98 per cent. of all by ages.

By season, the greatest number of deaths, 607, occurred in January; the next in number, 326, in February; followed by 295 in April, 254 in March, and 192 in December.

Mortality in the State from Influenza, 1890 to 1901, inclusive.

	aths.		SE	х.	PAREN	TAGE.	DIVISIONS OF THE STATE.							
YEARS.	Number of Deaths.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.		
1890	168	2.42	72	96	68	100	6	14	12	61	70	5		
1891	177	2.67	67	110	91	86	7	14	14	60	69	13		
1892	366	4.54	142	194	170	166	11	27	13	115	144	26		
1893	85	1.14	34	51	47	38	7	3	5	33	32	5		
1894	166	2.32	62	104	88	78	6	9	15	48	75	13		
1895	115	1.53	48	67	63	52	3	10	9	42	41	10		
1896	42	.56	15	27	16	26	2	1	2	30	6	1		
1897	153	2.15	52	101	72	81	3	6	3	72	64	5		
1898	75	1.09	29	46	40	35	8	3	5	30	26	3		
1899	219	2.94	82	137	104	115	9	6	14	94	80	16		
1900	255	2.89	108	147	120	135	8	14	16	112	98	7		
1901	146	1.83	55	91	79	67	8	6	3	52	67	10		
1890-1901	1,937	2.18	766	1,171	958	979	78	113	111	749	772	114		

Influenza by Age Periods, 1890 to 1901.

YEARS.	Under 1.	1 to 5.	5 to 10.	10 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	Not stated.
1890	14	18	4	8	14	22	18	17	19	17	11	5	1
1891	11	12		8	14	6	. 14	21	29	42	19	1	
1892	26	20	2	6	13	19	25	33	74	74	41	3	
1893	7	5	4	3	6	1	7	4	13	16	16	2	1
1894	6	14	2	5	11	6	20	12	32	37	17	4	
1895	14	10	1	5	8	6	9	10	16	24	9	3	
1896	1	3	2	1	1	2	2	4	13	6	6	1	
1897	11	1	2	5	2	10	10	22	22	38	25	5	
1898	12	4	1	1	4	6	5	8	7	13	8	6	
1899	27	15	3	4	11	13	13	26	24	53	23	7	
1900	9	7	1	2	14	9	13	25	56	65	54		
1901	14	2	3	2	4	9	6	18	29	35	24		
											_		
1890-1901	152	111	25	50	102	109	142	200	334	420	253	37	2
Per cent. of all ages for 12 yrs., 1890-1901	7.85	5.78	1.29	2.58	5.27	5.63	7.33	10.33	17.24	21.68	13.06	1.91	.10

^{*} Exclusive of Providence city.

Influenza by Months, 1890 to 1901, inclusive,

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
1890	108	27	11	8	4	2	2		1	3	1	1	168
1891	4	3	1	22	19	19	2	2	2	4	1	98	177
1892	198	52	31	27	9	6		2	3	2	1	5	336
1893	5	1	2	19	12	4	1	2	1	1	1	36	85
1894	102	27	10	9	7	3	2	1	1		1	3	166
1895	12	20	43	16	7	6	5				2	4	115
1896	9	4	5	7	5	4	1	2	2	1		2	42
1897	26	67	29	11	4	3			2	2	3	6	153
1898	7	2	15	13	9	5	2		1		1	20	75
1899	93	59	27	16	7	1		3	1	2	2	8	219
1900	5	16	53	134	26	8		3		1	4	5	255
1901	38	48	27	13	9	3			1		3	4	146
1890-1901	607	326	254	295	118	64	15	15	15	16	20	192	1,937

Insanity.

There were 33 deaths from insanity, in 1901, a decrease of 21 from 1900. The percentage to the whole number of deaths was .41. These deaths occurred chiefly at the Cranston institutions, and in the Butler Hospital.

Sex.—There were 18 male and 15 female decedents.

Parentage.—The number of native decedents from insanity was 10, and of foreign parentage 23.

Of the 33 deaths in 1901, there were 5 from dementia, 18 from insanity, 5 from acute mania, 1 from chronic mania, and 4 from melancholia.

Of the 5 deaths from dementia, the secondary cause given in 1 case was diarrhea; 1, chronic nephritis; 1, lepto-meningitis; 1, melancholia; and 1 case with no secondary cause given.

Of the 18 deaths from insanity, the secondary cause given in 11

cases was general paralysis; 3, Bright's disease; 1, sarcoma of vulva; and 2 with no secondary cause given.

Of the 6 deaths from acute and chronic mania, the secondary cause given in 3 cases was Bright's disease; 1, enteritis; and 2 with no secondary cause given.

Of the 4 deaths from melancholia, the secondary cause in 1 case was nephritis; and 1, monomania, with no secondary cause given in 2 cases.

The following Table shows the mortality in the State from insanity for thirty-six years, with percentage to deaths from all causes, sex, parentage, etc., from 1866 to 1901, inclusive:

Table LXXX.

Mortality in the State from Insanity, 1866 to 1901, inclusive.

	aths.		SE	х.	PAREN	TAGE.		biviši	ONS OF	THE S	STATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County,	Providence County.*	Providence City.	Washington County.
5 years, 1866-1870	72	.47	33	39	52	20		5	4	7	55	1
1871-1875	106	.52	55	51	76	30	3	2	8	33	58	2
1876	12	28	5	7	9	3	1	2	1	1	6	1
1877	19	.49	9	10	9	10		1		5	12	1
1878	22	.50	5	17	16	6			1	3	17	
1879	17	.40	11	6	10	7				5	11	. 1
1880	19	.39	9	10	13	6		1	2	6	9	1
1876-1880	89	.39	39	50	57	32	1	4	4	20	55	
1881	32	.63	15	17	22	10	1	1	3	10	16	1
1882	23	.45	9	14	18	5		1		8	12	1
1883	29	.55	12	17	17	12	1	5		7	18	
1884	36	.69	17	19	24	12	5	3		21	9	
1885	35	.67	16	19	18	17			2	23	10	
1881-1885	155	.59	69	86	99	56	4	7	5	69	65	:
1886	49	.83	21	28	28	21	3	1	1	37	7	
1887	64	1.01	35	29	33	31	1		1	56		
1888	43	.64	21	22	24	19	1	2		33	7	
1889	22	.35	14	8	12	10	• • • • • •			14	8	
1690	30	.44	19		16	14	1	1	1	13	14	
1886-1890	208	.65	110	98	113	95	6	4	3	153	36	1
1891	21	.32	10	11	16	5		1		5	13	
1892	27	.37	17	10	15	12	3	1		8	14	
1893	39	.53	14	25	13	26				30	9	
1894	49	.68	20	29 36	22	27 28	1	1		27	18	1
1895 1891-1895	208	.96	97	111	110	98	3	3	1	111	81	
1004		50	00	25	22	91				40	11	
1896	53 103	.70 1.45	28 53	50	51	31 52		3	4	78	11	
1897	82	1.45	41	41	37	45	3		2	60	10	
1899	66	.88	37	29	33	33	3	2	1	55	5	
1900	54	.61	29	25	33	21	1	1	2	45	5	
	358	.95	188	170	176	182	7	8	9	278	43	1
1896-1900							,	6			40	1
1901	33	.41	18	15	10	23			26	7		
Total, 36 years	1,229	.62	609	620	693	536	28	33	60	678	393	3

^{*} Exclusive of Providence city.

DISEASES OF THE KIDNEYS.

There were 505 deaths returned, during 1901, with diseases of the kidneys assigned as the cause.

This number represents 6.3 per cent. of all causes, and a proportion of 1.15 to every 1,000 of the population.

Sex.—Of the 505 there were 266 males and 239 females.

Parentage.—There were 224 of native parentage and 281 of foreign, or about 80 of native to every 100 of foreign parentage.

Age.—Of the 505 decedents from kidney diseases, 12 were under five years of age, 18 from five to twenty, 89 from twenty to forty, 160 from forty to sixty, 197 from sixty to eighty, 29 eighty and over.

Diseases of the kidneys have largely increased in number, and much more largely in proportion, during the last thirty-six years.

During the ten years from 1866 to 1875, inclusive, the proportion of deaths from kidney diseases, to whole number of deaths from all causes, was but little more than one per cent., while during the ten years from 1886 to 1895, inclusive, the proportion was over four and one-half per cent.

The following Table will present various facts in relation to the mortality from diseases of the kidneys in Rhode Island, for thirty-six years, 1866–1901:

Table LXXXI.

Mortality in the State from Kidney Diseases, 1866 to 1901, inclusive.

	aths		81	ex.	PARES	NTAGE.	DIVISIONS OF THE STATE.						
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington	
5 years, 1866-1870	135	.88	94	41	91	44	6	7	25	23	66	1	
1871-1875	295	1.44	167	128	187	108	11	11	17	67	172	1	
1876	50	1.28	22	28	32	18	1	1	7	10	28		
1877	67	1.57	40	27	35	32	2	1		14	49		
1878	80	1.89	50	30	49	31	4	3	3	21	47		
1879	79	1.88	51	28	44	35	1	3	1	23	43		
1880	91	2.02	52	39	51	40	1	5	10	27	46		
1876-1880	367	1.65	215	152	211	156	9	13	21	95	213	10	
1881	79	1.69	40	39	47	32	7	5	4	14	48		
1882	86	1.79	50	36	45	41	2	5	10	15	52		
1883	129	2.43	72	57	74	55	5	2	17	37	60		
1884	118	2.29	53	65	66	52	5	11	12	28	54		
1885	159	2.97	92	67	86	73	8	10	17	31	88		
1881-1885	571	2.20	307	264	318	253	27	33	60	125	302	2.	
1886	155	2.49	85	70	93	62	3	10	22	37	71	1	
1887	169	2.66	92	77	90	79	5	6	16	43	92		
1888	213	3.23	102	111	122	91	10	10	24	46	115		
1889	210	3.38	119	91	122	88	14	13	15	62	96	1	
1890	229	3.20	116	113	109	120	15	8	21	59	116	1	
1886-1890	976	3.05	514	462	536	440	47	47	98	247	490	4	
1891	245	3.06	123	122	122	123	9	12	25	72	114	1	
1892	258	3.49	135	123	127	131	9	11	24	70	128	1	
1893	302	4.06	154	148	141	161	19	15	25	81	147	1	
1894	313	4.37	152	161	164	149	22	20	33	84	136	1	
1895	341	4.54	176	165	171	170	23	19	29	96	163	1	
1891-1895	1,459	3.90	740	720	725	784	82	77	136	403	688	7	
1896	395	5.26	209	186	188	207	19	39	34	125	160	13	
1897	387	5.44	198	189	185	202	24	19	30	129	164	2	
1898	471	6.82	228	243	207	264	19	23	25	153	219	3	
1899	477	6.40	241	236	215	262	23	80	33	148	223	21	
1900	516	5.85	240	276	275	241	16	19	25	186	236	3	
1896-1900	2,246	5.94	1,116	1,130	1,070	1,176	101	130	147	741	1,002	123	
1901	505	6.34	266	239	224	281	20	33	33	167	231	21	
Total, 36 years	6,554	3.31	3,419	3,135	3,362	3,192	303	351	537	1,868	3,164	33	

^{*} Exclusive of Providence city.

DISEASES OF THE LIVER.

There were 100 deaths reported, in 1901, as having been caused by structural diseases of the liver.

This number represents 1.26 per cent. of all causes, and a proportion of .23 to every 1,000 of the population.

Of the 100 decedents, there were 54 males and 46 females.

There were 31 of native parentage and 69 of foreign.

Seventy-eight of the whole number were of persons of 40 years of age and over.

In the age period of from 5 to 40, there were but 16 decedents from diseases of the liver.

The mortality from such diseases does not depend to any marked extent upon the influence of season.

Table LXXXII will present various facts relating to diseases of the liver during thirty-six years.

Table LXXXII.

Mortality from Diseases of the Liver, 1866 to 1901, inclusive.

	eths		81	SX.	PARE	STAGE.		DIVISIO	ONS OF	THE S	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.	Providence City.	Washington County.
1866-1870	201	1.31	113	88	118	83	12	14	36	47	70	22
1871-1875	202	.98	91	111	119	83	18	14	12	56	88	14
1876	45	1.09	26	19	27	18	1	5	5	11	18	5
1877	52	1.17	23	29	31	21	1		7	16	24	4
1878	49	1.10	25	24	32	17	8	1	6	14	18	2
1879	52	1.24	27	25	31	21	4	4	2	14	22	6
1880	58	1.27	29	29	40	18	4	3	8	15	25	8
1876-1880	256	1.15	130	126	161	95	18	13	28	70	107	20
1881	46	.92	30	16	21	25	2	2	6	8	24	4
1882	62	1.22	34	- 28	36	26	3	5	10	17	24	3
1883	51	.94	27	24	20	31	5	6	4	16	18	2
1884	48	.93	22	26	23	25	5	3	5	2	31	2
1885	61	1.13	24	37	32	29	2	6	6	21	24	2
1881-1885	268	1.03	137	131	132	136	17	22	31	64	121	13
1886	54	.92	29	25	26	28	4	4	4	14	28	
1887	86	1.35	40	46	38	48	3	5	3	31	39	5
1888	68	1.03	38	30	36	32	1	5	6	28	26	2
1889	70	1.12	30	40	31	39	1	2	10	26	29	2
1890	65	.94	42	23	29	36	.3	4	6	21	26	5
1886-1890	343	1.07	179	164	160	183	12	20	29	120	148	14
1891	81	1.23	41	40	28	53	3	4	9	26	38	1
1892	89	1.20	39	50	34	55	8	5	4	27	45	5
1893	72	.97	43	29	30	42	4	8	6	15	86	3
1894	93	1.30	43	50	42	51	2	9	9	42	24	7
1895	81	1.07	43	38	28	53		6	10	27	31	7
1891-1895	416	1.15	209	207	162	254	12	32	38	137	174	23
1896	110	1.47	56	54	87	73	3	7	6	40	48	6
1897	58	.82	31	27	22	36	4	3	6	15	25	5
1898	91	1.32	41	50	31	60	3	7	6	26	41	8
1899	92	1.23	48	44	22	70	5	6	15	25	35	6
1900	100	1.13	56	44	36	64		10	7	59	47	7
1896-1900	451	1.19	332	219	148	303	15	33	40	135	196	32
1901	100	1.26	54	46	31	69	3	8	7	31	46	5
Total, 36 years	2,237	1.13	1,145	2,092	1,031	1,206	107	156	221	660	950	143

^{*} Exclusive of Providence city.

DROPSY.

During the years 1899, 1900, and 1901, there were no deaths from dropsy so called, all cases so reported having been ascertained to have been the result of some definite cause, and placed in that division.

The continuance of this table has been discontinued, but is here inserted that the changes and advance in perfection of diagnosis may be demonstrated.

TABLE LXXXIII.

Mortality from Kidney and Liver Discuses compared with Dropsy (so returned) for thirty-six years, 1866 to 1901.

		THS FI		DEA	THS FI	KOM ASES.		AL DEA FROM Y AND ISEASE			THS PI		- 34 - 203 - 25 - 85 - 77 - 103 - 345 - 103 - 345 - 103 - 126 - 133 - 126 - 133 - 126 - 133 - 126 - 136 - 136 - 156 - 138 - 156 - 156 - 157 - 160 - 234 - 238 - 250 - 1106 - 231 - 238 - 250 - 1106 - 231 - 238 - 250 - 1106 - 231 -	f Dropsy
YEARS.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Diminution of in reference t	Percentage of Dropsy to all.
1866-1870	185	94	41	201	113	88	336	207	129	302	143	159	-34	1.96
1817-1875	295	167	128	202	91	111	497	258	239	294	130	164	203	1.43
1876	50	22	28	45	26	19	95	48	47	70	35	35	-25	1.70
1877	67	40	27	52	23	29	119	63	56	64	25	39	-55	1.44
1878	80	50	30	49	25	24	129	75	51	44	23	21	-85	.99
1879	79	51	28	52	27	25	131	78	58	54	28	26	-77	1.21
1880	91	52	39	58	29	29	149	81	68	46	22	24	-103	.95
1876-1880	367	215	152	256	130	126	623	315	278	278	133	145	-345	1.25
1881	79	40	89	46	30	16	125	70	55	48	23	25	-77	.96
1882	86	50	36	62	34	28	148	84	64	52	23	29	-96	1.02
1883	129	72	57	51	27	24	180	99	81	47	21	26	-133	.89
1881	118	53	65	48	22	26	166	75	91	40	20	20	-126	.78
1885	159	92	67	61	24	37	220	116	104	44	30	14	-176	.82
1881-1885	571	307	264	268	137	131	839	414	395	531	117	114	-60s	.89
1886	155	85	70	54	20	25	200	114	95	45	18	27	-161	.77
1887	169	99	77	86	40	46	255	132	123	35	14	21	-220	.55
1888	213	102	111	68	38	30	281	140	141	47	18	29	-234	.71
1889	210	119	91	70	30	40	280	149	131	42	14	28	-238	.67
1890	253	116	113	65	42	23	294	158	136	44	18	26	-250	.63
1886-1890	976	514	462	343	179	164	1,319	693	626	213	82	131	-1106	.67
1891	245	123	122	81	41	40	326	164	162	35	8	27	-291	.52
1892	258	135	123	89	89	50	347	174	173	39	17	22	-308	.53
1893	302	154	148	72	43	20	374	197	177	39	11	28	-835	,52
1894	313	152	161	93	43	50	406	195	211	7	3	4	-399	.10
1895	341	176	165	81	43	38	422	219	203	4	1	3	-418	.05
1891-1895	1,459	740	719	416	209	207	1,875	919	926	124	40	81	-1751	.34
1896	395	209	186	110	56	54	505	205	210	2	1	1	-503	.03
1897	357	198	189	58	31	27	445	229	216	2	1	1		.03
1898	471	208	243	91	41	50	562	269	293	3	1	2	1	.04
1899	477	211	236	94	48	44	569	289	280				-569	
1900	516	210	276	100	56	44	616	296	320				-616	
1896-1900	2,216	1,116	1,130	451	232	219	2,697	1,848	1,319	ĩ	3	4	-2690	
1901	505	266	239	100	51	46	605	320	283				-605	
Total,36yrs	6,551	3,419	3,135	2,237	1,145	2,092	8,791	4,564	4,227	1,456	651	805	-7335	.74

MEASLES.

There were 15 decedents from measles as a cause of death in 1901.

This number represents .19 per cent. of all causes, and a proportion of .03 to every 1,000 of the population.

Of the 15, there were 10 males and 5 females.

Of parentage, there were 3 of native and 12 of foreign.

During the last ten years the proportion of mortality from measles has been about 53 of native to every 100 of foreign parentage.

During 1901 the number of decedents under 5 years of age was 14.

The number in the different divisions of the State may be found in Table LXXXIV.

Table LXXXIV.

Mortality in the State from Measles, 1866 to 1901, inclusive.

	aths.		SE	X.	PARE	STAGE.		DIVISI	ONS OF	THE	STATE.	
YEARS.	Number of Deaths.	Per cent.	Males,	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.	Providence City.	Washington
5 years, 1866-1870	92	.60	44	48	26	66	6	-4	12	35	25	
5 years, 1871-1875	102	.50	43	59	53	49	5	12	7	39	35	
1876	4	.10		-4	1	3				4		
1877	11	.25	3	8	2	9			1	8	2	
1878	81	1.82	39	42	25	56	2	3		26	50	
1879												
1880	9	.20	3	6	2	7				6	3	
1876-1880	105	.47	45	60	30	75	2	3	1	44	55	
1881	37	.74	17	20	15	22		1	2	9	25	
1882	6	.12	1	5		6				2	4	
1883	14	.27	11	3	9	5		1		3	8	
1884	18	.35	10	8	5	13	1	6	1	3	7	
1885	45	.84	27	18	19	26		7	2	27	8	
1881-1885	120	.46	66	54	48	72	1	15	5	44	52	
1886	18	.30	11	7	4	14		5		4	9	
1887	132	2.08	69	63	57	75		5	8	26	90	
1888	11	.22	5	6	3	8		2		7	2	
1889	29	.47	15	14	10	19		S		7	14	
1890	95	1.32	45	47	42	50	2	10	• • • • • •	41	31	_
1886-1890	282	.88	145	137	116	166	2	30	8	85	146	1
1891	12	.18	7	5	4	8	1	2	2	3	3	
1892	28	.38	14	14	10	18		2	4	11	11	
1893	100	1.34	56	44	83	67		11		22	64	
1894	9	.12	4	5	3	6			2	2	5	
1895 1891–1895	202	.70	105	$-\frac{29}{97}$	61	141	1	20	s	8	123	
1091-1093	204	.04	105	91	01	191	1	20		40	140	
1896	58	.77	28	30	22	36		6	3	28	19	
1897	33	.46	21	12	11	22	5	1	1	8	18	
1898	18	.26	11	7	3	15			1	12	4	
1899	47	.63	22	25	12	35		5		13	27	1
1900	185	2.10	87	98	79	106	-1	25		48	99	
1896-1900	341	.90	169	172	127	214	9	37	5	109	167	1
1901	15	.19	10	5	8	12		1		10	3	
Total, 36 years	1,259	.64	627	632	464	795	26	122	46	412	616	3

^{*} Exclusive of Providence city.

OLD AGE.

The number of deaths, in 1901, attributed to old age as a cause, was 234. This is 16 less than in 1900.

This number represents 2.94 per cent. of all causes, and a proportion of .53 to every 1,000 of the population.

Of the 234 decedents from old age, 83 were males and 151 were females, or about 55 males to every 100 females.

Of the parentage of the 234, there were 147 of native and 87 of foreign parentage.

The following Table will present the statistics of deaths in Rhode Island from old age for thirty-six years:

Table LXXXV.

Mortality in the State from Old Age, 1866 to 1901, inclusive.

	aths		5	EX.	PARE	NTAGE.		bivisi	ONS 01	THE	STATE.	
YEARS.	Number of Deaths.	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Keut County.	Newport County.	Providence County.*	Providence City.	Washington County.
5 years, 1866-1870	998	6.48	366	632	764	281	55	102	157	233	267	134
1871-1875	1,158	5.61	467	691	833	325	61	103	161	332	348	155
1876	241	6.18	107	134	177	64	12	14	38	65	71	41
1877	213	5.00	96	117	145	68	12	23	29	57	63	22
1878	200	5 25	84	138	172	50	15	S	32	76	61	80
1879	220	5.22	82	138	152	68	14	19	26	69	67	23
1880	273	5.95	121	152	186	87	12	20	34	90	73	44
1876-1880	1,169	5.24	490	679	832	337	65	81	159	357	335	169
1881	247	5.29	101	146	167	80	12	24	36	93	72	10
1882	283	5.89	110	173	190	93	20	25	40	106	79	13
1883	275	5.22	105	170	184	91	17	18	41	91	84	21
1884	293	5.68	101	105	196	97	16	20	39	106	86	26
1885	267	4.95	86	181	183	84	9	32	47	87	70	20
1881-1885	1,365	5.27	503	862	920	446	71	119	206	453	391	9:2
1886	276	4.69	101	175	181	95	16	24	36	100	73	27
1887	278	4.35	103	175	167	111	17	19	29	109	76	28
1888	290	4.35	108	182	198	92	16	26	25	124	64	35
1889	227	3.63	75	152	136	91	10	23	23	73	71	27
1890	198	2.87	72	126	123	75	16	19	19	59	63	2:1
1886-1890	1,269	3.97	459	810	805	464	75	111	132	465	347	189
1891	185	2.80	83	102	121	64	18	16	26	65	41	19
1892	256	3.46	95	161	. 168	88	9	24	29	-91	71	32
1893	183	2.44	72	111	113	70	8	16	19	33	92	15
1894	187	2.61	60	127	109	78	12	21	23	64	51	16
1895	197	2.61	82	115	105	93	17	17	16	87	51	9
1891-1895	1,008	2.78	392	616	616	392	64	94	113	340	806	91
1896	206	2,74	84	122	112	94	8	23	13	89	57	16
1897	159	2.24	13	108	96	63	7	9	6	69	57	11
1898	205	2.97	86	119	135	70	9	11	30	79	56	20
1899	228	3.06	85	143	148	80	10	16	37	71	72	22
1900	250	2.81	96	154	150	100	15	34	42	72	65	53
1896-1900	1,048	2.77	402	646	641	407	49	93	128	350	807	91
1901	234	2.94	83	151	147	87	13	18	83	72	76	22
Total, 36 years	8,249	4.17	3,162	5,087	5,558	2,691	456	724	1,089	2,712	2,377	891

^{*} Exclusive of Providence city.

PERITONITIS.

There were 20 deaths which were caused by peritonitis during 1901.

This number represents .25 per cent. of all causes, and a proportion of .05 to every 1,000 of the population.

Sex.—Of the 20 decedents from peritonitis, there were 6 males and 14 females.

Parentage.—There were 8 of native parentage and 12 of foreign.

PNEUMONIA.

There were 742 decedents from pneumonia in 1901. The number is 224 smaller than in 1900.

This number represents 9.3 per cent. of all causes, and a proportion of 1.7 to every 1,000 of the population.

Sex.—Of the 742 decedents from pneumonia, and including congestion of the lungs, 400 were males and 342 were females; or about 85 females to every 100 males.

Parentage.—By parentage, there were 324 of native and 418 of foreign parentage. The proportion of decedents from pneumonia was about 78 of native to each 100 of foreign parentage.

Season.—There were 431, or over 58 per cent., of the deaths that occurred during the first four months of the year. The largest mortality, by months, was 123 in February, 109 in January, 100 in March, and 99 in April.

Pneumonia, as a cause of death, has increased in the ratio to whole number of deaths, during the last thirty-six years; from an average of 6.3 per cent. during the first ten years to an average of 9.2 per cent. during the last ten, including 1901.

The following Table presents, for each of the last thirty-six years, the number and the percentage, with the sex and the parentage of the decedents from pneumonia, and the number in each year, in each division of the State:

Table LXXXVI.
Mortality in the State from Pneumonia, 1866 to 1901, inclusive.

	aths		SI	X.	PAHES	STAGE.		bivisi	NS OF	THE 8	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Fenules.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.	Providence City.	Washington County.
5 years, 1866-1870	928	6.0	467	461	556	372	43	56	66	287	407	69
1871-1875	1,331	6.5	667	634	783	548	54	71	65	385	662	97
1876	339	8.2	164	175	162	177	13	23	16	97	163	27
1877	226	5.1	104	122	127	99	10	7	14	81	98	16
1878	317	7.1	143	174	176	141	10	11	18	110	140	28
1879	311	7.4	148	163	163	148	7	15	15	103	156	15
1880	364	7.9	180	184	177	187	26	16	18	92	192	20
1876-1880	1,557	7.0	739	818	805	752	66	72	81	483	749	100
1881	327	6,5	177	150	190	137	10	23	17	81	174	2:2
1882	314	7.2	178	166	163	181	10	22	24	61	176	21
1883	400	7.8	192	208	198	202	19	21	34	108	204	14
1884.*	363	7.1	167	196	192	171	10	13	17	125	172	26
1885	465	8.6	214	251	271	194	15	20	33	151	227	19
1881-1885	1,899	7.3	928	971	1,014	885	64	99	125	556	953	10:
1886	481	8.2	232	249	234	247	17	29	37	161	209	28
1887	488	7.7	260	228	227	261	13	27	39	142	227	40
1888	508	7.7	274	234	227	281	16	37	29	171	219	36
1889	483	7.7	255	228	213	270	18	37	29	169	208	25
1890	569	8.2	288	281	217	322	16	36	30	206	246	35
1886-1890	2,529	7.9	1,309	1,220	1,148	1,381	80	166	164	849	1,109	161
1891	568	8.5	270	298	247	321	17	40	70	183	23:2	20
1892	655	8.8	335	320	265	390	18	57	52	216	277	83
1893	776	10.4	412	364	319	457	18	42	49	232	392	48
1894	665	9.3	314	321	305	360	18	47	46	224	276	54
1895	685	9.1	340	345	289	396	28	49	25	243	202	48
1891-1895	3,349	9.2	1,701	1,648	1,425	1,924	99	235	942	1,098	1,469	206
1896	669	8.9	306	303	274	395	23	45	39	263	256	43
1897	635	8.9	337	298	268	367	25	33	36	254	251	30
1898	512	7.8	299	243	218	324	8	89	41	198	241	13
1899	686	9.2	357	329	317	369	12	66	62	204	314	2
1900	906	10.9	479	187	373	593	25	90	43	323	451	8
1896-1900	3,498	9.3	1,838	1,660	1,450	2,048	93	278	221	1,242	1,513	156
1901	742	9.3	400	342	331	418	24	69	46	262	293	48
Total, 36 years	15,833	8.0	8,049	7,784	7,505	8,328	523	1,041	1,007	5,162	7,155	943

[·] Exclusive of Providence city.

· TABLE LXXXVII.

Exhibiting the Number of Decedents from Pneumonia, in each of the several Periods of Life, during each of the last thirty-six years, from 1866 to 1901, inclusive.

					Pı	ERIODS	of Li	FE.				
YEARS.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Not stated.
1866	57	4	4	5	12	10	14	21	25	32	9	
1867	57	9	2	3	10	11	13	16	25	13	12	1
1868	70	4	3	3	15	8	16	18	19	27	13	
1869	64	11	1	2	11	12	9	28	25	16	11	
1870	84	6	5	4	6	7	8	14	20	19	8	1
1871	71	7	2	7	10	17	16	16	35	17	19	1
1872	83	5	1	7	17	20	19	22	24	19	11	1
1873	105	4	8	3	10	14	16	17	24	23	10	
1874	76	9	4	6	17	17	25	21	40	27	8	
1875	120	9	3	8	22	30	85	39	61	43	28	2
1876	116	5	4	3	20	20	32	35	48	39	17	
1877	79	2		7	15	15	24	27	23	24	9	2
1878	115	9	4	10	14	17	28	20	42	45	13	
1879	102	8	1	3	14	27	26	35	38	38	19	
1880	95	18	3	16	14	33	37	46	47	43	12	
1881	102	4	2	5	15	22	26	45	48	31	26	1
1882	71	3	4	14	22	36	49	33	41	46	21	4
1883	88	15	2	13	32	33	40	53	49	46	27	2
1884	103	14	5	11	23	34	24	32	53	37	23	4
1885	121	9	10	8	23	29	50	49	76	59	29	2
1886	111	10	7	19	32	35	50	58	74	55	30	
1887	132	15	7	7	32	43	51	56	64	53	28	
1888	103	20	5	15	49	48	61	62	70	54	21	
1889	120	14	3	20	27	36	51	57	77	47	31	
1890	161	7	10	12	46	55	55	55	79	54	33	*
1891	126	10	4	11	42	54	60	70	84	70	37	
1892	139	10	9	10	39	69	75	74	110	71	44	5
1893	176	25	8	17	49	68	96	115	102	70	50	
1894	169	19	9	18	47	56	67	72	. 78	77	52	1
1895	172	16	9	20	49	56	77	66	94	77	49	
1896	220	20	7	· 17	33	55	56	71	83	€6	40	1
1897	194	14	10	17	33	46	58	58	73	75	57	
1898	202	11	4	9	23	39	40	58	66	54	36	
1899	238	14	6	19	38	53	50	62	78	74	53	1
1900	338	24	7	21	53	77	86	105	109	90	54	2
1901	185	20	5	21	49	57	91	94	-93	77	49	1
Total, 36 years	4,565	404	178	391	963	1,259	1,531	1,715	2,096	1,708	989	34

Age.—Of the decedents from pneumonia, during the period of thirty-six years, 29 per cent. were under five years of age. Of over fifty years of age the number of decedents was 41 per cent. of the whole number. The following summary will present the percentages for 1901, in round numbers:

Under five years of age 25 pc	er cent.
Five years and under twenty, and not stated 6 pe	er cent.
Twenty years and under fifty 27 pe	er cent.
Fifty years and over	er cent.

SCARLET FEVER.

The number of deaths returned as having been caused by scarlet fever, in 1901, was 21. The number is 13 less than in 1900.

This number represents .3 per cent. of all causes, and a proportion of .04 to every 1,000 of the population.

Sex.—Of the 21 decedents from searlet fever, 10 were males and 11 were females.

Parentage.—There were 9 of native parentage and 12 of foreign.

The following Table will present the statistics of scarlet fever for the last forty-six years, from 1856 to 1901, inclusive, the number and percentage and sex of the decedents from scarlet fever, and the number from scarlet fever in each division of the State. It also shows, from 1866 to 1901, inclusive, the parentage of the decedents from scarlet fever:

TABLE LXXXVIII. Mortality in the State from Scarlet Fever, 1856 to 1901, inclusive.

	aths		SE	x.	PAREN	TAGE.	1	oivisio	NS OF	THE S	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
0 years, 1856-1865.	1,440	5.2	700	740	4.	+	57	79	191	414	634	65
866-1870	496	3.2	231	265	210	286	26	32	27	142	236	33
871-1875	1,053	5.1	503	550	513	540	40	53	51	302	534	73
1876	80	1.9	34	46	42	38	3	2	7	21	35	12
1877	63	1.4	26	36	29	33	14	4	3	21	12	8
1878	86	1.9	41	45	35	51	3	5	3	14	57	4
1879	311	7.4	164	147	130	181	3	6	4	37	255	0
1880	468	10.0	215	253	216	252 '	22	30	11	143	243	19
1876-1880	1,007	4.5	480	527	452	555	45	47	28	236	602	49
1881	138	3.0	79	59	62	76	11	25	12	41	45	4
1882	45	0.9	24	21	16	29		3	16	7	18	1
1883	34	0.6	17	17	. 14	20	1	1	5	9	16	2
1884	94	1.8	39	58	41	56			8	28	57	4
1885	91	1.7	36	55	48	43		3	6	24	38	20
1881-1885	405	1.6	195	210	181	224	12	32	47	109	174	31
1886	88	1.5	46	42	29	59		13	2	41	30	2
1887	266	4.2	120	146	95	171	9	16	4	80	154	3
1888	207	3.1	101	106	91	116	1	29	10	87	80	
1889	51	0.8	24	27	14	37	3	2	6	14	25	:
1890	16	0.2	11	5	6	10		3		2	8	:
1886-1890	628	2.0	302	326	235	393	13	63	22	224	297	-
1891	33	0.5	17	16	12	21	1	3		9	17	
1892	67	0.9	38	29	21	46	1	4	4	20	38	
1893	193	2.6	86	107	75	118	1	23	3	68	97	1
1894	123	1.7	59	64	52	71	2	8	2	55	56	
1895	107	1.4	53	55	42	65	1	2	3	37	63	
1891-1895	523	1.4	252	271	505	321	6	40	12	189	271	-
1896	53	0.7	30	23	24	29		2	1	9	33	1 8
1897	29	0.4	15	14	13	16	1	1	4	10	12	
1898	21	0.3	10	11	14	7		1	1	13	4	9
1899	29	0.4	17	12	13	16		3		6	19	
1900	34	0.3	24	10	55	12		1	6	16	11	
1896-1900	166	0.4	96	70	86	80	1	8	12	54	79	1:
1901	21	0.3	10	11	9	12		2	2	8	9	
Total, 46 years	5,739	2.9	2,769	2,970	1,888	2,411	200	356	392	1,678	2,836	27

CROUP, DIPHTHERIA, AND SCARLET FEVER.

Season and Mortality.

The following Table is continued, to show by comparison the influence of season in regard to the mortality from croup and scarlet fever for forty-eight years, and diphtheria for forty-four years. The Table will give the average monthly and quarterly percentages of deaths from each cause:

TABLE LXXXIX.

	CRO 		DHPHTH — 1858-1		SCARLET	7
MONTHS.	Number of deaths.	Per cent.	Number of deaths.	Per cent,	Number of deaths.	Per cent.
January	406	12.66	615	9.85	781	12.19
February	358	11.17	461	7.38	715	11.1:
March	203	9.14	488	7.82	639	9.90
First Quarter	1,057	32.97	1,561	25.05	2,138	33.3
April	236	7.36	428	6.86	557	8.6
May	167	5.21	426	6.82	579	9.0
June	141	4.40	369	5.94	, 490	7.6
Second Quarter	544	16.97	1,223	19.59	1,626	25.2
July	108	3.37	338	5.41	367	5.7
August	90	2.81	363	5.82	305	4.7
September	186	5,80	460	7.37	320	4.9
Third Quarter	384	11.98	1,161	18.60	595	15.4
October	334	10.42	769	12.32	445	6.9
November	450	14.03	816	13.07	538	8.3
December	437	13.63	710	11.37	698	10.7
Fourth Quarter	1,221	38.08	2,295	36.76	1.676	26.0
Totals	3.206	100.00	6,243	100.00	6,432	100.0

SUICIDE.

The number of deaths by suicide, in Rhode Island, during 1901, was 55, which is the same number as in the preceding year.

There were 46 male and 9 female decedents from that cause, or a proportion of 5 males to every 1 of the females.

Of the 55, 24 were of native parentage and 31 of foreign.

The means of self-destruction, according to the returns, were as follows :

By cutting throat, 4; by drowning, 7; by hanging, 13; by illuminating gas, 4; by chloroform, 1; by shooting, 15; by arsenic, 1; by carbolic acid, 4; by morphine, 2; by "paris green," 3; by "rough on rats," 1.

Table XC.

Mortality in the State from Suicide, 1866 to 1901, inclusive.

	aths.		SE	X.	PAREN	TAGE.		DIVISI	ONS OF	тик в	TATE.	
YEARS.	Number of Deaths	Per cent.	Mules.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
5 years, 1866-1870	86	.56	67	19	66	20	2	7	6	31	34	(
1871-1875	89	.43	61	28	57	32	3	9	6	20	43	1 8
1876	18	.46	15	3	6	12			1	5	10	1
1877	22	.52	16	6	15	7		2	1	5	12	
1878	21	.50	16	5	12	9	3	2		5	7	
1879	13	.31	10	3	5	s				5	7	
1880	10	.20	5	5	8	2		1	1	8	2	
1876-1880	84	.38	62	22	46	38	3	5	3	26	38	-
1881	23	.49	19	4	15	8		5	3		14	
1882	31	.64	23	8	23	8	1	4	3	s	12	:
1883	25	.47	18	~	11	14			2	8	15	
1884	2.2	.43	20	2	13	9		1	1	6	11	:
1885	20	.37	16	4	11	9	1	1	6	3	6	:
1881-1885	121	.47	96	25	73	48	2	11	15	25	58	10
1886	17	.29	16	1	12	5	1	3	2	4	7	
1887	16	.25	13	3	8	8	2		2	5	7	
1868	21	.42	20	1	15	6		1	3	6	9	:
1889	24	.38	20	4	9	15		2	5	7	10	
1890	19	.28	15	4	12	7	2		1	8	5	:
1886-1890	97	.30	81	13	56	41	5	6	13	30	38	
1891	40	.61	27	13	15	25	2	2		10	24	1
1892	19	.26	15	4	10	9			4	6	8	1
1893	21	.38	18	3	10	11		2		7	12	
1894	45	.63	36	9	24	21	1	3	5	14	19	3
1895	31	.41	22	9	13	18	3	2	5	5	13	5
1891-1895	156	.46	118	38	72	84	6	9	. 14	42	76	4
1896	38	.51	28	10	20	18	2	1	2	11	20	2
1897	41	.58	33	8	21	20		4	5	11	18	5
1898	46	.67	88	8	20	56		3	4	14	24	1
1899	41	.55	30	11	18	23	1	2	1	7	27	5
1900	55	.62	42	13	25	30	1	2	7	24	19	- 5
1896-1900	221	.58	171	50	104	117	4	12	19	67	108	11
1901	55	.69	46	9	24	31	3	8	5	26	15	1
Total, 36 years	909	.46	705	204	498	411	28	67	78	267	410	59

^{*} Exclusive of Providence city.

Whooping Cough.

The number of deaths from whooping cough, returned in 1901, was 17, and was 69 less than the number in 1900.

Of the 17 decedents from whooping cough, 6 were males and 11 were females.

There were 9 decedents of native parentage and 8 of foreign. All of the decedents were under 5 years of age.

The following Table will present the mortality from whooping cough for thirty-six years, 1866–1901, inclusive, with the death rate, sex, parentage, etc., of the decedents:

Table XCI.

Mortality in the State from Whooping Cough, 1866 to 1901, inclusive.

	aths		ŠE.	х.	PAREN	TAGE.		orvis(C	NS OF	THE	TATE.	
YEARS.	Number of Deaths	Per cent.	Males.	Females.	Native.	Foreign.	Bristol County.	Kent County.	Newport County.	Providence County.*	Providence City.	Washington County.
5 years, 1866-1870	153	.99	78	75	68	85	2	13	14	51	63	7
1871-1875	160	.78	65	95	64	96	4	11	13	56	73	1
1876	48	1.17	19	29	20	28	5	3	1	7	31	1
1877	32	.72	18	14	6	26			1	15	16	
1878	54	1.22	26	28	30	24		1		9	43	1
1879	43	.96	17	26	22	21		11	1	12	15	
1880	20	.41	10	10	7	13			- 2	6	11	1
1876-1880	197	.88	90	107	85	112	5	15	5	49	116	1
1881	68	1.36	33	35	30	38		2	2	24	40	
1882	71	1.40	33	38	32	39		4		26	40	
1883	9	.17	6	3	5	4	1			4	4	
1884	43	.83	17	26	23	20	5		2	6	28	, ,
1885	42	.79	23	19	24	18		1	4	9	24	
1881-1885	233	.90	112	121	114	119	6	7	8	69	136	
1886	49	.83	28	21	17	32	-1	3		18	23	
1887	21	.32	9	12	10	11			4	6	10	r .
1888	44	.75	17	27	16	28		3	2	11	28	
1889	77	1.23	39	38	36	41	1	12	1	20	43	
1890	70	1.00	25	45	25	45	2	2	7	27	30	
1886-1890	261	.82	118	143	104	157	7	20	14	82	134	
1891	77	1.16	39	38	37	40	3	1	3	15	54	
1892	25	.34	10	15	14	11		1	3	12	9	
1893	23	.31	s	15	9	14	1		4	9	7	
1894	129	1.80	52	77	62	67	3	19	₀ 15	33	55	1
1895	45	.60	19	26	13	32		s	. 5	7	27	1
1891-1895	299	.84	128	171	135	164	7	20	27	76	152	
1896	59	.79	25	34	24	35	2	4	7	16	24	
1897	56	.79	27	29	26	30	1	8	11	14	17	
1898	96	1.39	37	59	50	46	5	2	4	24	57	
1899	86	1.15	30	56	43	43	1	5	1	30	47	3
1900	86	.97	31	55	34	52	4	Ü	3	0 t	46	
1896-1900	383	1.01	150	233	177	206	13	25	26	109	191	1
1901	17	.21	6	11	9	s		1	1	2	13	
Total, 36 years	1,703	.86	747	956	756	947	44	121	108	497	575	53

^{*} Exclusive of Providence city.

TABLE XCII.

Presenting the Ratio of Mortality to the Whole Number of Specified Causes of Death, of Twenty Prominent Causes, for twenty-six years, 1876-1901.

				•									YEARS.	RS.												
CAUSES OF DEATH.	1876.	1877.	1878.	1879.	1880.	1881.	1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1895, 1895, 1896, 1897, 1898, 1899, 1990, 1991,	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
Accidents (all kinds)	3.40	3.10	€8.8	.5 8.43	3.51	3.04	3.44	2.84	3.80	3.09	3.55	3.35	3.01	3.46	3.60	3.54	4.18	3.58	3.29	3.93	3.96	3.71	4.30	3.71	3.83	4.37
APOPLEXY AND PARALYSIS	4.01	4.35	4.45	5.21	4.67	5.23	5.52	5.39	5.78	5.38	5.69	4.17	5.50	5.15	4.91	5.08	4.89	5.53	6.26	5.57	5.61	6.63	6.04	6.15	5.76	6.30
BRAIN, DISEASES OF	3.64	3.68	3.28	3.73	3.44	3.84	3.60	3.50	2.97	3.61	3.11	3.29	3.43	3.03	3.13	3.36	3.33	3.49	3.11	3.45	4.00	4.63	5.7	3.59	3.30	3.55
Bronchitis	1.46	1.62	1.62 1.89		1.47 1.98	1.80	2.08	2.04	2.39	3.09	3.96	2.77	3.42	4.20	4.01	3.74	4.16	4.24	3.57	3.66	3.69	3.19	3.43	3.24	3.36	5.93
CANCER	2.72	3.17	2.82	2.96	2.7.2	3.11	2.75	3.30	3.03	3.59	2.77	3.50	66.2	3.03	3.41	2.66	2.45	2.78	3.01	3.13	3.05	3.59	4.05	3.93	3.32	3.86
CHOLERA INFANTUM	6.41	80.9	3.97	3.81	5.43	5.15	6.77	4.73	6.31	5.16	6.27	5.60	7.08	6.80	8.39	8.35	8.56	8.18	6.98	6.68	7.29	6.00	6.80	6.36	6.34	5.06
CONSUMPTION		15.52	15.98	15.09	14.02	15.12	16.78 15.52 15.98 15.09 14.02 15.12 15.33 15.01 14.34 14.45 14.12 11.19 12.13 11.61 12.29 11.18 10.26	15.01	14.34	14.45	14.12	11.19	12.13	11.61	12.29	11.18	10.26	9.79		9.92 11.21 11.32 10.97 12.87 13.07 11.23 19.49	11.32	10.97	12.87	13.07	1.33	19.49
CROUP	2.61	2.23	2.20	2.28	1.45	2.16	1.60	1.40	1.55	1.74	1.40 1.55 1.74 1.55 1.79 1.19 1.28	1.79	1.19	1.28	1.19	1.01	1.20	89.	.45	07.	86	8.	.13	.15	25.	.30
DIARRHGA	1.87		1.25	1.26	1.52	1.65	2.11 1.25 1.26 1.52 1.65 1.87	2.55	2.20	1.55	2.20 1.55 1.59		1.20	1.40	1.37	1.26	2.09 1.20 1.40 1.37 1.26 1.73 1.59 1.17	1.59	1.17	08.	8	88.	.83	· 6:	68:	72.

TABLE XCII.—Concluded.

													YEARS	ES.												
CAUSES OF DEATH.	1876.	1876. 1877. 1878. 1879. 1880. 1881. 1883. 1883. 1884. 1885	1878.	1879.	1880.	1881.	382	883	<u>z</u>	32	1886, 1887, 1888, 1889, 1890.			1889.		1891.	1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900,	1893.	1894.	895.	1896.	268	898	899. 1		1901.
Бичитивиль		4.07 11.56 10.28	10.28	6.14	3.40	₹.63	2.10	.8	2.31	3.	3.5	4.33	2.86	£.93	3.04	1.54	1.30	5.13	1.87	1.51	8.19	3.26	3.3	1.16	2.16	83.
DYSENTERY	1.28	1.23	.95	1.04	.61	96:	1.45	1.06	E.	39.	1.13	1.0	1.11	1.14	1.25	Ž.	98:	ŀā	73.	55.	Ŧ.	83	13	.59	8	:93
Freeze	3.00	3.55	3.91	2.50	3.37	3.05	4.60	5.12	2.5	2.93	30	2.00	3.58	25 25	2.26	33	33	1.61	15.45	65.5	2.07 1.55		1.55	1.61	1.68	1.59
HEART, DISEASES OF	4.03	33	3.95	 1	5.03	5.68	5.31	6.35	5.60	6.43	6.20	6.46	6.56	.35	5.8	6	6.81	7.36	6.70	7.15	7	8.02	7.97	2	70.7	8.61
Hydroczphalus	1.73	1.39	1.65	1.30	1.01	1.20	1.03	æ	.83	55.	Ŧ	7	17	20	50	25.	.30	24	17	G.	35	35	03.	11.	8:	.09
Kidneys, Diseases of	. 1.3	1.57	38.	2 .	2.05	1.69	1.79	01 77	55.	3.14	50.5	2.66	23.	8.88	8.20	6. 	3.49	4.10	4.41	4.56	5.55	5.46	6.84	6.41	5.83	6.37
LIVER, DISEASES OF	1.15	1.06	1.06	1.17	1.30	36	1.21	22	80	100	1.08	1.34	1.19	1.30	6.	28 28	1.20	-8	1.31	1.08	7:	Z	1.32	25	1.11	1.26
Ось Абе	6.18	5.00	5.25	5.99	5.95	5.29	5.89	38.	5.68	4.95	4.69	25. S.S.	25. 25.	8.63	8	8.3	3.46	4.	2.63	2.63	5.76		2.98	3.07	30	2.95
PNEUMONIA	8.09	5.31	7.49	7.87	-7.90	7.01	7.16	30:-	7.14	8.65	x	5.50	1.63	7.69	8.30	8.60	3	10.53	9.36	9.15	8.95	8.96	1. S.	9.21 10.59	_	9.36
SCARLET FEVER	2.05	1.46	2.03	 	9.99	3.96	16.	19:	33	1.70	1.50	08.1	3.11	Z	65	.50	16.	2.62	1.13	1.43	Ξ.	7.	.81	355	85	2-
Wиоогиза Собай		16	2.	1.28 1.02		.44 1.46 1.48	1.48	÷	28	6-	2	85	13	1.23	.75 1.23 1.00 1.16	1.16	.8.	.31	32	.60	Ç.	.39	.79 1.39 1.16	1.16	8	<u> </u>

TABLE XCIII.—BIRTHS.

Occupation of the Fathers.—1901.

OCCUPATIONS.	Number.	OCCUPATIONS.	Number.
Actors	2	Reed and Harness Makers	5
Agents and Cauvassers	25	Sail	4
Architects	3	Sash and Blind	1
Artesian Well Builders	1	Shoe	71
Artists	4	Soap	2
Assayers and Analytical Chemists	8	Spectacle	2
Baggage Masters	3	Spindle	3
Bakers	98	Spring-bed	1
Bankers and Brokers	8	Tool	39
Bank Officers	5	Trunk	3
Barbers and Hair Dressers	115	Wringer	1
Bartenders	69	Blacksmiths	137
Baseball Players	2	Bleachers and Fullers	28
Belt Makers	4	Boat Builders	2
Bobbin	1	Bookbinders	4
Boiler	25	Bookkeepers	61
Bolt	8	Bootblacks	4
Box	5	Bottlers	9
Brick	6	Brakemen	33
Brush and Broom	3	Brewers	16
Cabinet	14	Brick and Stone Layers	18
Cap	1	Building Movers	2
Carriage, and Trimmers	9	Butchers and Marketmen	56
Chess	1	Butlers	12
Cigar	12	Cab Drivers and Hackmen	7
Clock and Watch	5	Carders	36
Comb	1	Card Grinders	12
Core	8	Carpenters	420
Glue	1	Carpet Layers	2
Harness and Saddle	8	Chasers	10
Lace	4	Circus Performers	1
Mattress	1	Civil Engineers	2
Paper	1	Clergymen	27
Pattern	9	Clerks and Salesmen	357

Table XCIII.—Continued.

OCCUPATIONS.	Number.	OCCUPATIONS.	Number.
Clothiers	14	Drivers	4
Coachmen	43	Druggists and Apothecaries	33
Coal and Wood Dealers	11	Dyers	5
Dry Goods	7	Electricians	5
Fish and Oyster	8	Electric Light Trimmers	
Furniture	5	Enamelers	
Grain	1	Engineers and Firemen	20
Hardware	7	Engravers	13
Ice	1	Expressmen	21
Junk	7	Farmers	32
Leather	1	File Cutters	5
Liquor	59	File Forgers	
Lumber	1	· Finishers	10
Music	1	Brass	
News	3	Cloth	
oil	1	Fire Company Members	7
Provision	16	Fishermen and Oystermen	4-
Shoe	16	Florists	16
Stencil	1	Folders	1-
Collectors	16	Foundrymen	!
Commercial Travelers	18	Fruiterers	1-
Compositors	10	Furniture Movers	1
Conereters	2	Gardeners	46
Conductors and Motormen	99	Gns Fitters	4
Confectioners	9	Gate and Crossing Tenders	9
Contractors and Builders	25	Glass Blowers and Workers	:
Cooks and Caterers	36	Grocers	9:
Coopers	5	Hatters	:
Coppersmiths	2	Heaters	1
Cutters	6	Hostlers	37
Velvet	6	Hotel and Inn Keepers	4
Decorators	8	Saloon and Restaurant	58
Dentists	6	Icemen	Į.
Designers	3	Inspectors	13
Die Cutters	1	Insurance Agents	41
Die Sinkers	2	Real Estate	E

Table XCIII.—Continued.

OCCUPATIONS.	Number.	OCCUPATIONS.	Number.
Janitors	24	Organ Grinders	
Jewelers	246	Painters	20
Shell	1	Paper Hangers	
Jobbers	4	Pavers	
Journalists (Editors and Reporters)	5	Pawnbrokers	
Knitters	11	Paymasters	
Laborers	2,745	Pearl Workers	
Lamplighters	1	Peddlers	14
Lapidaries	1	Pentographers	
Lathers	3	Photographers and Lithographers	
Laundrymen	14	Physicians	3
Lawyers	15	Piano Tuners	
Leather Dressers	1	Pilots	
Life Saving Service Men	5	Plasterers and Stneeo Workers	2
Lighthouse Keepers	2	Platers (Electro)	
Linemen	20	Gold	
Longshoremen	16	Nickel	
Loomfixers	81	Silver	
Lumbermen	2	Plumbers	7
Machinists	407	Polishers	٥
Mail Carriers	12	Silver	
Managers	10	Polo Players	
Manufacturers	24	Pork and Meat Cutters and Pork Packers	1
Masons	102	Porters	1
Mechanics	29	Pressmen	
Melters	3	Printers	
Merchants	87	Calico	
Milkmen	25	Proofreaders	
Millers	6	Public Officers	
Millwrights	2	Pursers	
Miners	1	Railroad Officials	
Moulders	82	Employees	1
Musicians	18	Refiners	
Nurses	4	Gold	
Officers, Naval	1	Riggers	
Operatives,	588	Roll Coverers	
Opticians	7	Roofers	

TABLE XCIII.—Concluded.

OCCUPATIONS.	Number.	OCCUPATIONS,	Number.
Rubber Workers	118	Superintendents and Overseers	107
Sallors	32	Switchmen and Gatemen	6
Selssors Grinders	1	Tallors	98
Sculptors	1	Tanners and Curriers	7
Sea Captains and Ship Masters	5	Teachers and Professors	21
Secretarles	2	Teamsters	347
Servants	2	Telephone and Telegraph Operators	11
Sextons	3	Ticket Agents	9
Sheriffs, Constables, and Policemen	39	Tinsmiths	20
Ship Carpenters	1	Tobacconlsts	3
Silversmiths	42	Traders	6
Sketchmakers	1	Treasurers	41
Slaters	1	Typesetters	9
Soldiers	25	Undertakers	6
Spinners	116	Upholsterers	19
Stable Keepers	8	Veterinary Surgeons	3
Stampers	4	Walters	24
Station Agents	5	Watchmen	31
Steam Pipers	21	Weavers	592
Steel Rollers and Workers	2	Well Diggers	1
Stencil Cutters	1	Wheelwrights	3
Stenographers	1	Wire Workers	s
Stereotypers	1	Wood Choppers	7
Stevedores	2	Wood Finishers	7
Stewards	5	Wood Sawyers	2
Stone Cutters and Marble Workers	55	Wood Turners	10
Store Keepers	19	Wool Sorters	10
Students	2		

TABLE XCIV.—MARRIAGES.

Occupations of the Grooms.—1901.

OCCUPATIONS.	Number.	OCCUPATIONS.	Number.
Actors	6	Sail Makers	
dvertisers	1	Screw	1
agents and Canvassers	8	Shoe	2
Architects	1	Shovel	1
Army Officers	1	Soap	
Naval	1	Tool	2
Artists	5	Wringer	
Assayers and Analytical Chemists	5	Blacksmiths	3
Authors	1	Bleachers and Fullers	1
Baggage Masters	6	Boat Builders	
Bakers	36	Bookbinders	
Bankers and Brokers	13	Bookkeepers	9
Bank Officers	2	Booksellers	
Barbers	29	Bottlers	- 0
Bartenders	23	Brakemen	1
Bellmen	2	Brewers	
Bicycle Makers	1	Brick and Stone Layers	
Boiler	6	Butchers and Marketmen	1
Bolt	3	Butlers	
Box	3	Buyers	
Brick	1	Cab Drivers and Hackmen	
Cabinet	4	Capitalists	
Cap	1	Carders	1
Carriage, and Trimmers	2	Card Grinders	1
Cigar	2	Carpenters	11
Clock and Watch	3	Chasers	
Comb	2	Chiropodists	
Core	5	Civil Engineers	1
Gas	1	Clergymen	1
Harness and Saddle	6	Clerks and Salesmen	29
Lace	1	Clothiers	
Mattress	1	Coachmen	,
Pattern	6	Coal and Wood Dealers	
Piano	2	Dry Goods	

Table XCIV.—Continued.

Compositors 2 Groeers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 55 Contractors and Builders 8 Saloon and Restaurant 11 Cooks and Cuterers 17 Icemen 10 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 3 Electricians 27 Lamplighters 2	occupations.	Number.	OCCUPATIONS.	Number
Grain 1 Engravers 9 Hardware 2 Expressmen 11 Horse 2 Farmers 120 Ice 2 File Cutters and Grinders 18 Junk 2 File Forgers 1 Lumber 4 Fire Company Members 7 News 2 Fishermen and Oystermen 13 Oil 1 Florists 5 Paper 2 Folders 9 Provision 3 Foundrymen 6 Shoe 5 Fruiterers 5 Spring Water 1 Furriers 1 Collectors 3 Gardeners 18 Combers 3 Gardeners 18 Combers 3 Gardeners 4 Compositors 2 Grocers 4 Compositors 2 Grocers 40 Conductors and Motormen 52 Hotels and Inn Keepers 12 Contractors and Bu	Fish and Oyster Dealers	2	Enamelers	2
Hardware	Furniture	2	Engineers and Firemen	75
Horse	Grain	1	Engravers	9
Ice	Hardware	2	Expressmen	11
Junk	Horse	2	Farmers	120
Liquor	Ice	2	File Cutters and Grinders	18
Lumber 4 Fire Company Members 7 News 2 Fishermen and Oystermen 13 Oil 1 Florists 5 Paper 2 Folders 9 Provision 3 Foundrymen 6 Shoe 5 Fruiterers 5 Spring Water 1 Furlers 1 Collectors 3 Gardeners 18 Combers 3 Gasfitters 4 Combers 3 Gasfitters 4 Compositors 2 Grocers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 5 Contractors and Builders 8 Saloon and Restaurant 11 Coopers 3 Inspectors 6 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3	Junk	2	File Forgers	1
News 2 Fishermen and Oystermen 13 Oil 1 Florists 5 Paper 2 Folders 9 Provision 3 Foundrymen 6 Shoe 5 Fruiterers 5 Spring Water 1 Furriers 1 Collectors 3 Gardeners 18 Combers 3 Gasfitters 4 Combers 29 Glass Workers 2 Compositors 2 Groeers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 5 Contractors and Builders 8 Saloon and Restaurant 11 Coopers 3 Inspectors 6 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Designers 6 Steel 1 <tr< td=""><td>Liquor</td><td>13</td><td>Finishers</td><td>8</td></tr<>	Liquor	13	Finishers	8
Oil. 1 Florists. 5 Paper. 2 Folders. 9 Provision. 3 Foundrymen 6 Shoe. 5 Fruiterers. 5 Spring Water. 1 Furriers 1 Collectors. 3 Gardeners 18 Combers. 3 Gasfitters. 4 Combers. 29 Glass Workers. 2 Compositors. 2 Groeers. 40 Compositors. 2 Groeers. 40 Conductors and Motormen. 52 Hostlers 12 Confectioners. 1 Hotels and Inn Keepers. 5 Contractors and Builders. 8 Saloon and Restaurant. 11 Cooks and Cuterers. 17 Icemen. 10 Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decigners. 6	Lumber	4	Fire Company Members	7
Paper 2 Folders 9 Provision 3 Foundrymen 6 Shoe 5 Fruiterers 5 Spring Water 1 Furriers 1 Collectors 3 Gardeners 18 Combers 3 Gasfitters 4 Combers 26 Glass Workers 2 Compositors 2 Grocers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 5 Contractors and Builders 8 Saloon and Restaurant 11 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Bentists 5 Brass 2 Designers 6 Steel 1 Drivers 17 Johners 11<	News	2	Fishermen and Oystermen	13
Provision 3 Foundrymen 6 Shoe 5 Fruiterers 5 Spring Water 1 Furriers 1 Collectors 3 Gardeners 18 Combers 3 Gasfitters 4 Combers 29 Glass Workers 2 Compositors 2 Grocers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 5 Contractors and Builders 8 Saloon and Restaurant 11 Cooks and Cuterers 17 Icemen 10 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Bruss 2 2 Deis Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 11 </td <td>Otl</td> <td>1</td> <td>Florists</td> <td>5</td>	Otl	1	Florists	5
Shoe 5 Fruiterers 5 Spring Water 1 Furriers 1 Collectors 3 Gardeners 18 Combers 3 Gasfitters 4 Commercial Travelers 29 Glass Workers 2 Compositors 2 Grocers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 5 Contractors and Builders 8 Saloon and Restaurant 11 Cooks and Cuterers 17 Icemen 10 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Bruss 2 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dryers 18 Knitters 6 </td <td>Paper</td> <td>2</td> <td>Folders</td> <td>9</td>	Paper	2	Folders	9
Spring Water 1 Furriers 1 Collectors 3 Gardeners 18 Combers 3 Gasfitters 4 Commercial Travelers 29 Glass Workers 2 Compositors 2 Groeers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 5 Contractors and Builders 8 Saloon and Restaurant 11 Cooks and Cuterers 17 Icemen 10 Coopers 3 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Dentists 5 Brass 2 Designers 6 Steel 1 Draughtsmen 7 Jewelers 11 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Drug	Provision	3	Foundrymen	6
Collectors. 3 Gardeners 18 Combers. 3 Gasfitters 4 Commercial Travelers. 29 Glass Workers. 2 Compositors. 2 Grocers. 40 Conductors and Motormen. 52 Hostlers. 12 Confectioners. 1 Hotels and Inn Keepers. 5 Contractors and Builders. 8 Saloon and Restaurant. 11 Cooks and Cuterers. 17 Icemen. 10 Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decorators. 3 Iron Workers. 3 Brass. 2 2 Designers. 6 Steel. 1 Die Sinkers. 1 Janitors. 10 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Druggists and Apothecaries. 5 Laborers. 3	Shoe	5	Fruiterers	5
Combers. 3 Gasfitters. 4 Commercial Travelers. 29 Glass Workers. 2 Compositors. 2 Grocers. 40 Conductors and Motormen. 52 Hostlers. 12 Confectioners. 1 Hotels and Inn Keepers. 5 Contractors and Builders. 8 Saloon and Restaurant. 11 Cooks and Cuterers. 17 Icemen. 10 Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decorators. 3 Iron Workers. 3 Besigners. 5 Brass. 2 Designers. 6 Steel. 1 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters. 6 Electrical Engineers. 5 Laborers. 3 <	Spring Water	1	Furriers	1
Commercial Travelers. 29 Glass Workers. 2 Compositors. 2 Grocers. 40 Conductors and Motormen. 52 Hostlers. 12 Confectioners. 1 Hotels and Inn Keepers. 5 Contractors and Builders. 8 Saloon and Restaurant. 11 Cooks and Cuterers. 17 Icemen. 10 Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decorators. 3 Iron Workers. 3 Designers. 6 Steel. 1 Die Sinkers. 1 Janitors. 10 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters. 6 Electrical Engineers. 5 Laborers.	Collectors	3	Gardeners	18
Compositors 2 Groeers 40 Conductors and Motormen 52 Hostlers 12 Confectioners 1 Hotels and Inn Keepers 55 Contractors and Builders 8 Saloon and Restaurant 11 Cooks and Cuterers 17 Icemen 10 Coopers 3 Inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 22 Lamplighters 22	Combers	3	Gasfitters	4
Conductors and Motormen. 52 Hostlers 12 Confectioners. 1 Hotels and Inn Keepers 5 Contractors and Builders. 8 Saloon and Restaurant 11 Cooks and Cuterers. 17 Icemen 10 Coopers. 3 Inspectors 6 Coppersmiths. 1 Insurance Agents 12 Cutters. 7 Real Estate 5 Decorators. 3 Iron Workers 3 Dentists. 5 Brass 2 Designers. 6 Steel 1 Die Sinkers. 1 Janitors 10 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers. 18 Knitters 6 Electrical Engineers. 5 Laborers. 3 Lamplighters. 2 2	Commercial Travelers	29	Glass Workers	2
Confectioners. 1 Hotels and Inn Keepers. 5 Contractors and Builders. 8 Saloon and Restaurant. 11 Cooks and Cuterers. 17 Icemen. 10 Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decorators. 3 Iron Workers. 3 Dentists. 5 Brass. 2 Designers. 6 Steel. 1 Die Sinkers. 1 Janitors. 10 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters. 6 Electrical Engineers. 5 Lamplighters. 2 Lamplighters. 2	Compositors	2	Groeers	40
Contractors and Builders 8 Saloon and Restaurant 11 Cooks and Cuterers 17 Icemen 10 Coopers 3 inspectors 6 Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Dentists 5 Brass 2 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 3 Electricians 27 Lamplighters 2	Conductors and Motormen	52	Hostlers	12
Cooks and Cuterers. 17 Icemen 10 Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decorators. 3 Iron Workers. 3 Dentists. 5 Brass. 2 Designers. 6 Steel. 1 Die Sinkers. 1 Janitors. 10 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters. 6 Electrical Engineers. 5 Laborers. 3 Electricians. 27 Lamplighters. 2	Confectioners	1	Hotels and Inn Keepers	5
Coopers. 3 Inspectors. 6 Coppersmiths. 1 Insurance Agents. 12 Cutters. 7 Real Estate. 5 Decorators. 3 Iron Workers. 3 Dentists. 5 Brass. 2 Designers. 6 Steel. 1 Die Sinkers. 1 Janitors. 10 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters. 6 Electrical Engineers. 5 Laborers. 37 Electricians. 27 Lamplighters. 2	Contractors and Builders	8	Saloon and Restaurant	11
Coppersmiths 1 Insurance Agents 12 Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Dentists 5 Brass 2 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 3 Electricalars 27 Lamplighters 2	Cooks and Cuterers	17	Icemen	10
Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Dentists 5 Brass 2 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 3 Electricalns 27 Lamplighters 2	Coopers	3	Inspectors	6
Cutters 7 Real Estate 5 Decorators 3 Iron Workers 3 Dentists 5 Brass 2 Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 3 Electricalns 27 Lamplighters 2	Coppersmiths	1	Insurance Agents	12
Dentists. 5 Brass 2 Designers. 6 Steel 1 Die Sinkers. 1 Janitors 10 Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters 6 Electrical Engineers. 5 Laborers. 377 Electricians. 27 Lamplighters. 2	Cutters	7	Real Estate	5
Designers 6 Steel 1 Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Kultters 6 Electrical Engineers 5 Laborers 377 Electriclans 27 Lamplighters 2	Decorators	3	Iron Workers	3
Die Sinkers 1 Janitors 10 Draughtsmen 7 Jewelers 112 Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 377 Electriclans 27 Lamplighters 2	Dentists	5	Brass	2
Draughtsmen. 7 Jewelers. 112 Drivers. 17 Jobbers. 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters). 8 Dyers. 18 Knitters 6 Electrical Engineers. 5 Laborers. 377 Electricians. 27 Lamplighters. 2	Designers	6	Steel	1
Drivers 17 Jobbers 3 Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers 18 Knitters 6 Electrical Engineers 5 Laborers 377 Electricians 27 Lamplighters 2	Die Sinkers	1	Janitors	10
Druggists and Apothecaries 23 Journalists (Editors and Reporters) 8 Dyers	Draughtsmen	7	Jewelers	112
Dyers	Drivers	17	Jobbers	3
Electrical Engineers. 5 Laborers. 377 Electriclans. 27 Lamplighters. 2	Druggists and Apothecaries	23	Journalists (Editors and Reporters)	8
Electricians	Dyers	18	Knitters	6
		5	Laborers	377
	Electricians	27	Lamplighters	2
	Electric Light Trimmers	1	Lapidaries	3

Table XCIV.—Continued.

OCCUPATIONS.	Number.	OCCUPATIONS.	Number.
Lathers	3	Plumbers	30
Laundrymen	9	Polishers	1
Lawyers	11	Silver	
Life Saving Service Men	5	Pork and Meat Cutters and Pork Packers	
Linemen	7	Porters	1
Liverymen	3	Pressmen	
Longshoremen	2	Printers	2
Loom Fixers	21	Public Officers	
Lumbermen	1	Publishers	
Machinists	229	Pursers	
Mall Carriers	11	Railroad Employees	1
Managers	15	Ranchers	
Mannfacturers	25	Rattan Workers	
Masons	20	Refiners, Gold	
Mechanics	22	Riggers	
Melters (Iron)	2	Roll Coverers	
Merchants	30	Roofers	
Messengers	3	Rubber Workers	3
Milkmen	11	Sailors	1
Millers	1	U. S. Navy	
Miners	4	Sea Captains and Ship Masters	
Missionaries	1	Secretaries	
Moulders	30	Servants	
Musicians	14	Sextons	
Nurses	5	Sheriffs, Constables, and Policemen	
Operatives	244	Silversmiths	2
Opticians.	2	Soldiers	
Painters and Glaziers	65	Spinners	4
Painters, Carriage	2	Stable Keepers	_
Paper Hangers	3	Stampers	
Pearl Workers	3	Stationers	
Peddlers	19	Steam Pipers	
Photographers and Lithographers	3	Stevedores.	;
Physicians	22	Stewards	
Piano Tuners	3	Stone Cutters and Marble Workers	1:
Plasterers and Stucco Workers	5	Store Keepers	1,
Platers	4	Students	1

Table XCIV.—Concluded.

		Number
51	Upholsterers	5
1	Veterinary Surgeons	1
2	Waiters	<u>Ω</u> ()
1	Watchmen	6
20	Wenvers	201
9	Well Drivers	1
108	Wire Workers	4
4	Wood Sawyers	4
10	Wood Turners	î
1.1	Wood Workers	.3
2	Wool Sorters	10
4		
	2 1 20 9 108 4 10 1	2 Waiters 1 Watchmen 20 Wenvers 9 Well Drivers 108 Wire Workers 4 Wood Sawyers 10 Wood Turners 1 Wood Workers 2 Wool Sorters

TABLE XCV.

Occupations and Ayes of Decedents, from June 1, 1852, to January 1, 1902, comprising a period of forty-nine years and seven mouths.
Alphabetically arranged.

(OCCUPATIONS UNDER TEN, AND AGES UNDER TWENTY, ENCLUDED.)

OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	OCCUPATIONS,	Total Mortality.	Aggregate Ages.	Аустаке Аке.
MALES.				MALES.			
Actors	16	544	34.00	Pump and Block Makers	14	388	55.71
Agents	300	15,960	53.20	Rope	53	1,672	66.88
Arehiteets	19	1,066	56.10	Sail	68	5,290	58.73
Artists	44	2,338	52.91	Sash and Blind	10	202	50.30
Bakers.	190	12,165	64.03	Shoe	670	88,879	58 03
Bankers and Brokers	177	10,615	59.97	Tool	\$	2,376	53.80
Bank Officers	12	4,565	64.30	Watch and Clock		5.460	55.91
Barbers	868	10,570	35.47	Blacksmiths and Farriers	290	43,218	54.71
Bartonders	26	3.018	35.93	Bleachers and Fullers	95	3.796	49.94
Belt Makers	13	260	58.46	Boatmen	3.1	1.888	55.53
Boiler	88	3,748	42.59	Boat Builders	35	1,999	62.47
Вох	F 67	1,149	47.88	Bookbinders	83	1.304	46.57
Broom and Brush	16	813	50.81	Bookkeepers	470	21,447	45.63
Cabinet	149	8.761	58.79	Bottlers	10	360	36.00
Carriage, and Trimmers	7.9	4,405	55.76	Brakemen	143	4,261	30 01
Cigar	113	5,254	46.49	Brewers	57	1,175	48.96
Harness	142	7,200	50.70	Brick and Stone Layers	14	699	47.36
Pattern	68	5,291	59.44	Butchers and Marketmen	331	17,144	51.79
	-	_	_				

Table XCV.—Continued.

OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Аустике Аке.
MALES. Calleo Printers.	62	8,483	24.96	MALES. Contractors and Enflders.	138		59.95
Calkers	13	1,033	68.87	Cooks and Caterers	140	6.831	48.79
Carders	91	861	46.62	Coopers	134	8.856	60 99
Carpenters and Johners	9.49	136.265	56.28	Coppersmiths	16	696	60.56
Chasers	05	3	38 73	Pecorators	11	526	37.57
Clvii Engineers	35	2,673	49.50	Dentists	90	2.967	52,98
Clerks and Safesmen	1.491	56,488	87.81	Designers	S	1,305	52.20
Clergymen	25.55 25.55	18,429	63.50	Die Sinkers	77	1,138	17.41
Clothlers	17	959	56.11	Draughtsmen	16	551	31.41
Conchinen	618	9,753	41 23	Drivers, Cab, etc	-	2	40,89
Cont and Wood Dealers	2	965	51.52	Car Conductors and Metormen	9	2,564	41.30
Fish and oyster	. 31	3.N32	59.74	Pruggists and Apothecaries	33	9,239	94: 60
Junk	61	1.079	56.79	Dyets	159	2.11.2	51.05
Liquor	130	6,485	46.65	Electricians	Ši.	1,001	\$5.73
Lumber	18	1,004	55.55	Engineers and Flremen	5333	20,405	49.90
Provision	÷	1,305	56.73	Engravers	121	7,395	49,35
Shoe	Ξ	101	51.07	Expressmen	113	5,745	20.81
Collectors	. 36	1,991	25.81	Farmers	7.85S	493,630	67.00
Commercial Travelers	. 31	13.6.1	45,85	Fluishers	£	1,163	1-
Confectioners	0.5	fol o	36.69	File Cuffers	3695	4,850	11.06

Table XCV.—Continued.

OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.
MALES.	52	490	40.83	Jewelers.	1,274	53,917	42.31
Fishermen and Oystermen	583	15,994	53.80	Journalists (Editors and Reporters)	55	2,566	46.65
Florists	99	3,654	55.86	Judges and Justices	18	1,156	64.93
Founders	65	1,079	49.05	Laborers	11,581	570.875	49.29
Foundrymen	55	1,273	53.04	Lamplighters	15	1,152	54.86
Gardeners	367	21,843	59.52	Lapidaries	33	430	35.83
Gas Fitters	53	2,830	43 54	Laundrymen	35	1,083	43.82
Gilders	53	535	41 58	Lawyers	602	120'61	57.53
Grocers	507	27,586	54.41	Linemen	14	659	44.93
Gnn and Locksmiths	88	1,525	54.46	Machinist s	1,865	91,245	48.92
Hatters	22	1,473	54.56	Mail Carriers	13	- 530	44.17
Hostlers	17.1	7,832	43.88	Manufacturers	703	42,918	61.09
Hotel and Inn Keepers	185	10,213	55.21	Mariners	530	26,436	49.88
Saloon and Restaurant	214	9,827	45.93	Masons	1,001	56,191	56.14
Stable	81	4,433	51.73	Mechanics	515	27,374	52.95
Store	69	3,695	53.55	Melters	13	299	55.58
Inspectors,	25	1,205	50.21	Merchants	1,439	88,239	57.85
Inventors	16	1,054	65.87	Milkmen	83	824	37.13
Iron Pollers and Workers	12	1,006	47.90	Millers	23	3,084	58.19
Janitors	119	6,449	5,419	Millwrights	40	2,718	67.95

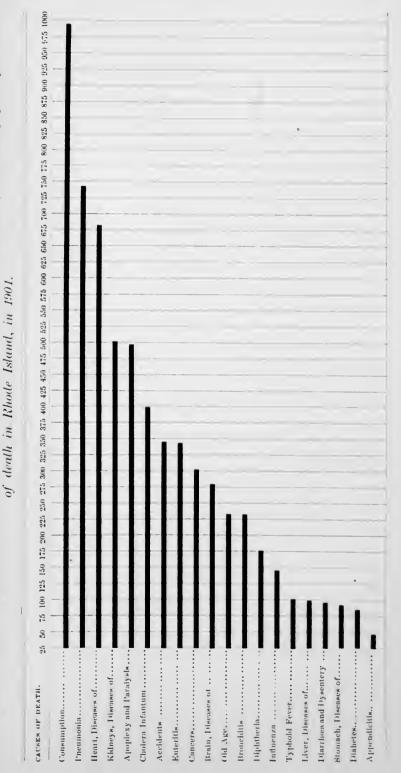
Table XCV.—Continued.

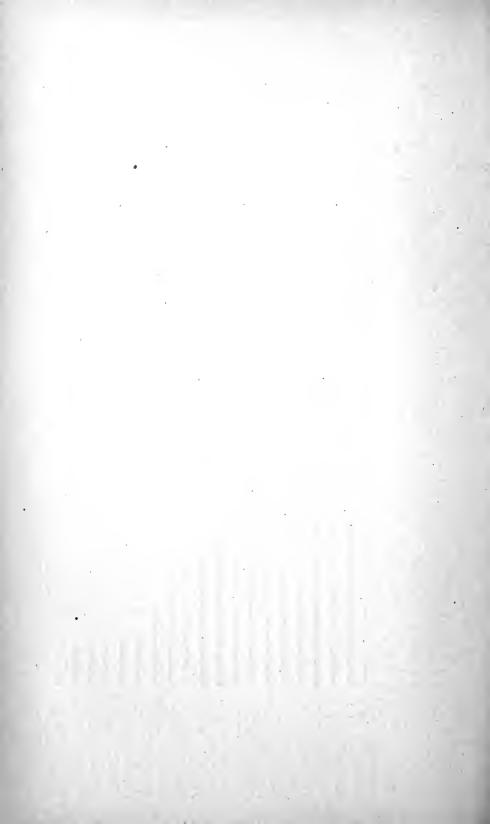
OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	OCCUPATIONS,	Total Mortality.	Aggregate Ages.	Аvегаgе Аge.
Miners.	51	1,018	56.55	NALES,		100 2	9
Moulders	388	21,101	51.36	Refiners	<u>x</u>	- EZ	46.33
Musicians	98	4.057	47.17	Riggers	83	1,843	23.53
Naval Officers	65	966	48.30	Holl Coverers	57	716,1	57.36
Nurses	13	1.023	53.79	Rubber Workers	602	8.830	12.25
Operatives	0.00	125,335	41.13	Saffors	333	16,161	48.54
Painters and Glaziers	1,103	51,159	49.10	Sea Captains	808	14,835	71.35
Imperhangers	55	1,311	95.50	Scrymts	30	1,820	11.07
Peddlers	505	816,01	50.35	Sextons	13	Sta	62.51
Photographers and Lithographers	3.5	1,493	46.65	Sheriffs and Policemen	102	8,458	51.83
Physicians	361	21,497	59.55	Ship Carpenters	90	5,910	69.07
Phots	77	1,336	55.67	Silversmiths	=	6,719	45.71
Plasterers and Stuccoworkers	33	3.031	48.11	Soldlers	158	1001	31.01
Platers	1	5003	57.36	Stemplipers	18	989	38.11
Plumbers	125	4.890	39.15	Stavedores	13	106	7:5
Pollshers	250	2,365	45.48	Stewards	89	<u></u>	17.43
Pork and Meat Cutters and Pork Packers	35	1,132	45.5%	Stonecutters and Marbleworkers	356	16,106	49.40
Porters	56	2,611	16.62	Students	00	2,059	
Printers	722	12,730	56.83	Superintendents and Overseers	153	28,720	56.0
Public Officers	101	6.036	20.56	Swift of many Catanana att	1.0	1001	0.0

Table XCV.—Concluded.

OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.	OCCUPATIONS.	Total Mortality.	Aggregate Ages.	Average Age.
MALES.		90	č	PEMALES.			
	1	€01.0÷	10.00	boarding-nouse weepers	55	1,677	62.11
Tanners and Curriers	62	3,959	63.85	Bookkeepers	83	500	30.83
Teachers and Professors	156	7,879	50.50	Clerks and Saleswomen	26	1,618	28.89
Teamsters	7.65	35.831	46.84	Cooks.	89	3,345	53.10
Telegraph and Telephone Operators	220	813	30.11	Dressmakers and Seamstresses	415	16,916	40.76
Tinsmiths	156	7,549	48.39	Jewelers	3.5 0.0	648	28.17
Tobacconists	Ţ	226	57.47	Laboring	91	669	43.69
Traders	283	14,259	50.39	Laundresses	33	2.641	49.83
Tradesmen, General	185	8,919	18.81	Milliners.	139	2.346	36 09
Treasurers	22	641	53.43	Nurses	139	7.991	57.49
Undertakers	28	3,317	57.03	Operatives	1,165	37,357	32.07
Upholsterers	61	2,673	41.77	Physicians	=	249	58.83
Waiters	137	5,543	40.46	Rubber Workers	₹.	869	80.68
Watchmen	608	11,994	57.30	Servants	209	28,659	47.61
Weavers	38 86	1,856	48.84	Sisters of Mercy	39	1.578	40 46
Wheelwrights	130	7,218	60.15	Tailoresses	15%	7.120	46.84
Wire Workers	16	685	45.88	Teachers	998	13,348	50.18
Wood Turners	09	2,693	43.70	Telegraph and Telephone Operators	10	60%	68.68
Wool Sorters	2	3,475	48.94	Waitresses	. 21	341	28.42
Total	51,891	2,739,176	52.79	Total	3,161	128,637	40.70
				Grand Total	010	0.00 500	90

Diagram III. Exhibiting the comparative martality by absolute number of decedents, from twenty principal causes





THE RETURNS OF THE MEDICAL EXAMINERS.

The number of deaths investigated by the medical examiners during the year 1901 was 541. These deaths resulted from sudden, suspicious, unknown, and violent causes. Of this number 408, or 75.4 per cent., were males; and 133, or 24.6 per cent., were females.

HOMICIDE.—The number of deaths from homicide was 6, or 1.1 per cent. of the whole number investigated. Of the 6 cases of homicide, 1 was by pistol-shot in the intestines, 1 by pistol-shot in heart, 1 by bullet-wound in head, 1 by contusions of head by being struck by bottle, and 2 by illuminating gas. In one case the assailant was brought to trial, convicted, and sentenced; in three instances the assailants committed suicide.

SUICIDE.—The number of deaths by suicide reported by the medical examiners in 1901 was 55, or 10.2 per cent. of the whole number examined. Death was caused as follows: by drowning, 10; hanging, 13; shooting, 13; illuminating gas, 5; incised wound of throat, 3; inhalation of chloroform, 1; by carbolic acid, 5; morphine, 1; "rough on rats," 1; paris green, 3.

Accidents.—The returns of the medical examiners show 276 deaths from accidents, specified as follows: asphyxia, 26; burns and scalds, 27; drowning, 59; falls, 46; poison, 6; by chloroform during surgical operation, 2; electric car, 10; electrical shock and burns, 3; elevator, 4; explosion of steam cylinder, 2; railroad, 29; bicycle, 4; firearms, 5; machinery, 1; heat, 13; exposure to cold and storm, 11; rnn over by heavy teams, 5; thrown from teams, 5; run over by (runaway) horse, 1; kicked by horse, 1; crushed by falling stone, 2; 1 each, crushed by falling pile of horse shoes; crushed while working on stone crusher; crushed between cart and wall; crushed by falling box; struck by derrick; struck by falling plank; rupture of intestines by falling (beer) barrel; caught in window, unable to move either way, died of exhaustion; fractured vertebræ by jumping from car to avoid "head-on" collision; severed artery (femoral), hemorrhage; by penetrating wound, at base of brain, made by pointed wire thrown

by companion while "fooling"; by stone falling on head during hypnotic performance at theatre; and 2 by fractured skull, manner unknown.

ASPHYXIA. 26.—By bed-clothes and overlaying, 11; at birth (mother unattended), 1; by illuminating gas, 8; by smoke in burning building, 1; by hot air, "large volumes of gas burning in room and alcoholism," 1; by incomplete combustion of oil-stove, 1; in coal-pocket by soft coal, 1; strangulation by food in air passages, 2.

Burns and Scalds, 27.—By bonfire, 4; by explosion of dynamite, 1; explosion of powder while making fireworks, 1; explosion of oil-stove, 1; playing with matches, 2; by upset kerosene lamp, 1; lighting fire with kerosene, 1; by clothes taking fire from stove, 6; by clothes taking fire from plumber's furnace, 1; by upsetting or falling into hot water or other liquids, 7; source unknown, 2.

Drowning, 59.—Bathing or swimming, 15; through ice, 9; overboard from boats, 4; by capsizing of boats, 6; from wharf, 1; from rock while fishing, 1; by falling into water while playing on edge, 2; by bursting of dam (swept away), 1; 20 were found in water, circumstances of the drowning unknown.

Falls, 46.—From building or staging, 12; downstairs, 5; on ground or floor, 9; on curbing, 2; on ice, 2; on rocks, 1; into hold of vessel, 2; from teams, 4; down chute, 1; into cellar, 1; into coal-pocket, 1; against stone in well, 1; from railroad bridge, 1; from window, 2; from wheelhouse to deck of vessel, 1; unspecified, 1.

Poison, 6.—One each, by overdose of chloral; overdose of cough mixture; oxalic acid taken for epsom salts; strychnine tablets mistaken for candy; toothache drops taken by child from shelf; and by drinking wood alcohol.

The whole number of deaths by accident in the State during 1901 was 346, showing that there were 70 deaths by accident where no medical examiner was called. In these cases a physician had been in attendance and had reported the cause of death. In many instances the death was not immediate. The division of these 346 deaths by accident was as follows (see page 188 of this report): asphyxia, 33; bicycle, 4; burns and scalds, 36; drowning, 57; electric car, 11; by electrical shock, 3; elevator, 4; exposure

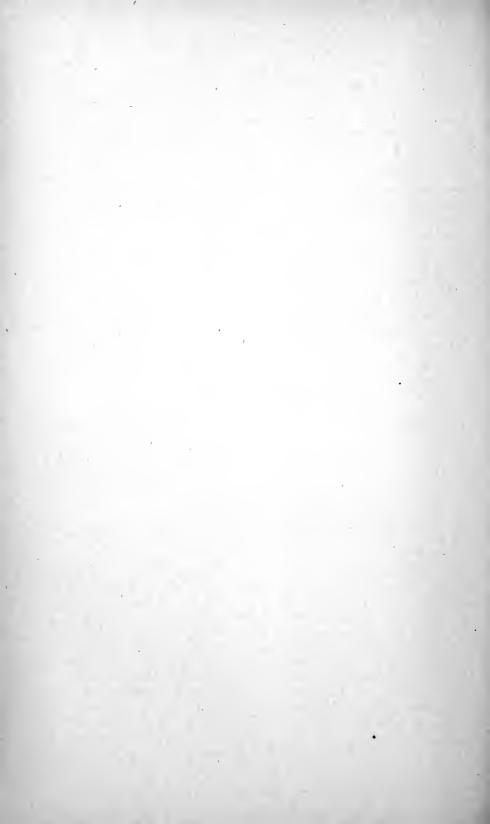
to cold and storm, 14; falls, 61; firearms, 5; insolation, 37; poison, 6; railroad, 33; various, 42.

A comparison of these figures with the cases of accidents which are viewed by medical examiners will show the cases which are more open to suspicion of avoidable violence. The difference (15) is more marked under the cause of falls.

Under sudden deaths which were investigated by medical examiners were, alcoholism, 18; angina pectoris, 2; apoplexy and cerebral hemorrhage, 9; bronchitis, 1; cancer of breast, 3; cancer of stomach, 1; childbirth (hemorrhage), 1; cholera infantum, 2; chronic diarrhea, 1; cirrhosis of liver, 1; infantile convulsions, 1; diabetes, 3; enteritis, 6; entero colitis, 1; epilepsy, 4; disease of heart, 59; strangulated hernia, 1; acute indigestion, 4; influenza, 2; ischio-rectal abscess, 1; malarial poison, 2; malassimilation or malnutrition, 4; membranous croup, 1; malformation, cleft palate, sudden death, 1; open foramen ovale, 2; nephritis, or Bright's disease, 18; cedema of lungs, 1; old age, 4; pelvic abscess, 1; pneumonia, 8; pulmonary congestion, 1; pulmonary apoplexy, 1; septicemia following criminal abortion, 3; tubercular meningitis, 1; tuberculosis, pulmonary, 12; tuberculosis, pulmonary, with hemorrhage, 5; sudden death, cause unknown, 7; neglect at birth, (supposed infanticides, 3 found in water, 1 in vault), 4; premature birth, 4; there were also 3 still-births.

Number and Per Cent. of Each Group of Cases Viewed by Medical Examiners.—1894-1901.

YEARS.	Homicide.		Snicide.		Accident or Negligence.		Natural and Unknown Causes, Including Alcohol- ism.		
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Total.
1894	9	3.1	45	15.6	141	49.0	80	39.3	288
1895	6	1.7	31	8.5	223	61.4	103	\$S.4	363
1896	1	0.3	27	8.3	177	54.3	121	37.1	826
1897	12	3.4	32	9.2	157	45.1	117	42.3	318
1898	12	3.1	41	10.7	203	53.0	127	33.2	353
1899	15	3.2	39	8.4	211	43.8	199	42 6	467
1900	15	2.8	59	11.2	258	48.8	197	37.2	509
1901	6	1.1	55	10.2	276	51.0	204	37.7	541



THE INTERNATIONAL CLASSIFICATION

OF

CAUSES OF DEATH.

Adopted by the United States Census Office for the Compilation of Mortality Statistics, for use beginning with the year 1900.

DETAILED CLASSIFICATION.

ALL CAUSES (STILL-BIRTHS EXCLUDED).

I.

General Diseases.

(A. Epidemic Diseases.)

- Typhoid Fever (Abdominal Typhus).
 Exanthematic Typhus. 3. Relapsing Fever
- Fever and Malarial 4. Intermittent Cachexia
- Repeated. Malarial Cachexia.
- Smallpox.
- Measles.
- Scarlet Fever. Whooping Cough, Diphtheria and Croup.
- Repeated. Diphtheria.

- Miliary Fever. Aslatio Cholera.
- 13. Cholera Nostrus.
- 14. Dysentery.
- Repeated, Epidemic Dysentery, Bubonic Plague, 14.
- 15.
- Yellow Fever. 16.
- Leprosy. Erysipelas
- Other Epidemic Diseases.

(B. Other General Diseases.)

- Purnlent Infection and Septicæmia.
- 21. Glanders and Farcy.
- 22. 23. Malignant Pustule. Rables.
- Actinomycosis, Trichinosis, etc. Pellagra.

- Tuberculosis of the Lungs.
- 26. 28.
- Tuberculosis of the Larynx. Tuberculosis of the Meninges. Abdominal Tuberculosis. 29.
- 30.
- Pott's Disease.
 Cold Abscess, Abscess by Congestion.
 White Swelling.
 Tuberculosis of Other Organs. 31.
- 32. 33.
- 34. General Tuberculosis.
- 35. Scrofula.
- 36. Syphilis.
- 37. 33.
- Gonorrhea (5 years and over). Gonorrhea (under 5 years). Caneer and Other Mallgnant Tumors of the Buccal Caylty.
- Cancer and Other Malignant Tumors of the Stomach and Liver.
 - Cancer and Other Mallgnant Tumors of the Peritoneum, Intestines, and
 - Rectum.
- 42. Cancer and Other Malignant Tumors of the Fennie Genital Organs. 43. Cancer and Other Malignant Tumors of the Breast.
- Cancer and Other Malignant Tumors of the Skin.
- 45. Cancer and Other Malignant Tumors of Other Organs, or of Organs not Specified.
- 46. Other Tumors (tumors of the Female Genital Organs excepted). Acute Articular Rheumatism. Chronic Rheumatism and Gout.

- 48.
- 49. Scurvy. Diabetes
- 50.
- Exopthalmic Goltre. Addison's Disease. Leukemia. 51.
- 53.
 - Anemia, Chlorosis.
 - Acute and Chronic Alcoholism.

57. 58. Chronic Lead Poisoning. Other Chronic Poisonings (occupational).

Other Chronic Poisonings. Other General Diseases, 59.

Diseases of the Nervous System and Organs of Special Sense.

60. Encephalitis. Simple Meningitis. 61.

Repeated. 61. Epidemic Verebro-spinal Meningitis.

Progressive Locomoton Ataxia. Other Diseases of the Spinal Cord. Congestion and Hemorrhage of the

Brain. 65. Softening of the Brain, Paralysis Without Specified Cause,

66. General Paralysis. 67.

68. Other Forms of mental Alienation. 69. Epilepsy.

Convulsions (Non-Puerperal; 5 years 70. and over)

71. Convulsions (under 5 years).

Diseases of the Ear.

72, Tetanus. Chorea. 73.

76.

Other Diseases of the Nervous System. Diseases of the Eye and its Adnexa. 75.

111.

Diseases of the Circulatory System.

Pericarditis.

78. Acute Endocarditis, 79. Organic Diseases of the Heart.

80. Angina Pectoris,

Diseases of the Arteries, Atheroma. 81.

Aneurism, etc. Embolism and Thrombosis. 80 83.

Diseases of the Veins (Varices, Hemorrhoids, Phlebitis, etc.)
Diseases of the Lymphatic System 84. (Lymphangitis, etc.).

85 Hemorrhages.

Other Diseases of the Circulatory 86. System.

IV.

Diseases of the Respiratory System.

Diseases of the Nasal Fossæ. Diseases of the Larynx. Diseases of the Thyroid Body. 88. 89

Acute Bronchitis. 90. 91. Chronic Bronchitis. Broncho-pneumonia.

92.

93. Pneumonia. 94. Pleurisy

Congestion and Apoplexy of the 95. Lungs. 96. Gangrene of the Lungs.

97.

Asthma. Pulmonary Emphysema. 98.

Other Diseases of the Respiratory System (Phthisis excepted). 99.

V.

Diseases of the Digestive System.

100. Diseases of the Mouth and its Adnexa. 101.

Diseases of the Pharynx. Diseases of the Esophagus. 102.

Ulcer of the Stomach. 103.

104. Other Diseases of the Stomach (Can-

cer excepted). Diarrhœa and Enteritis (under 2 105 years).

Repeated. Chronic Diarrhæa and En-teritis (under 2 years). Diarrhæa and Enteritis (2 years and 105.

106. over).

Intestinal Parasites. 107.

Hernia and Intestinal Obstructions. 108. Other Diseases of the Intestines. Acute Yellow Atrophy of Liver. 109.

110. 111. Hydatid Tumors of the Liver. 112.

Cirrhosis of the Liver. 113.

114

115.

Biliary Calculi.
Other Diseases of the Liver.
Diseases of the Spleen.
Simple Peritonitis (Non-puerperal).
Appendicitis and Abscess of the Iliac 116. 118. Fossa.

Other Diseases of the Digestive System (Cancer and Tuberculosis excepted).

VI.

Diseases of the Genito-Urinary System and its Adnexa.

119. Acute Nephritis. Bright's Disease.

Other Diseases of the Kidneys and 121.

their Adnexa.
Calculi of the Urinary Tract.
Diseases of the Bladder. 122 123.

124. Diseases of the Urethra, Urinary Abscess, etc.

125. Diseases of the Prostate.

126. Non-venereal Diseases of the Male Genital Organs.

127. Metritis.

Uterine Hemorrhage (Non-puerperal). Uterine Tumor (Non-cancerous). 128. 129. Other Diseases of the Uterus. 130.

Cysts and Other Tumors of the Ovary 131. 132.Other Diseases of the Female Genital

Organs. 133 Non-puerperal Diseases of the Breast (Cancer excepted).

VII.

The Puerperal State.

124 Accidents of Pregnancy.

Puerperal Hemorrhage 135. 136. Other Accidents of Labor.

137. Puerperal Septicamia. Puerperal Albuminuria and Convul-138. sions.

139. Phlegmasia Alba Dolens (Puerperal). 140. Other Puerperal Accidents - Sudden Death,

Puerperal Diseases of the Breast,

VIII.

Diseases of the Skin and Cellular Tissue.

Gangrene,

143. Furuncle, 144. Acute Abscess, Phlegmon.

145, Other Diseases of the Skin and its

Ailnexa.

IX.

Diseases of the Organs of Locomotion.

146. Non-tuberculous Diseases of the

147. Arthritis and Other Diseases of the Joints (Tuberculosis and Rheumatism excepted).

148.

Amputation. Other Diseases of the Organs of Loco-149. motion.

X.

Malformations.

150. Congenital Malformations (Stillbirths excluded),

XI.

Early Infancy.

151. Congenital Debility, Icterus and Selerema.

152. Other Diseases Peculiar to Early In-

fancy, Lack of Care, 153.

XII.

Old Age.

154, Senile Debility.

XIII.

External Causes.

155. Snielde by Polson.

156.

157.

158,

159,

160.

Suicide by Poison.
Suicide by Asphyxia.
Suicide by Hanging or Strangulation.
Suicide by Drowning.
Suicide by Firearms.
Suicide by Firearms.
Suicide by Cutting Instruments.
Suicide by Crushing.
Other Suicide.
Fractures.
Fractures. 161.

162. 163.

161. Fractures.

165. Dislocations.

167.

Burns and Sealds. Burns from Corrosive Substances. 168.

169. Sunstroke.

170. 171. Freezing. Electric Shock.

Accidental Drowning.

172, 178,

174.

Accidental Drowning.
Inaultion (Starvation).
Absorption of Deleterions Gases (Non-Suicidal).
Other Acute Polsonings.
Other Acetdental Traumatisms.
Other External Violence. 175.

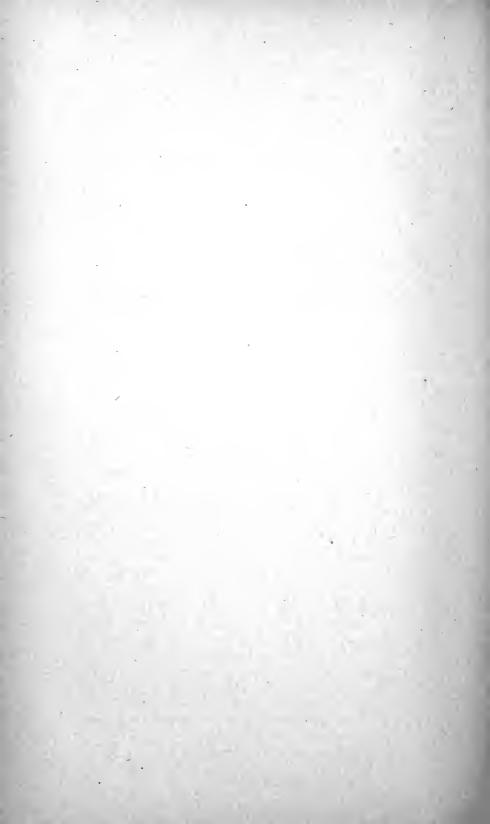
XIV.

166. 176.

III-Defined Diseases.

178. 179.

Dropsy, Sudden Death, Causes of Death Unspecified or ill defined.



APPENDIX B.

THE LAWS OF RHODE ISLAND

(As amended February 1, 1896.)

IN RELATION TO THE REGISTRATION OF

BIRTHS, MARRIAGES, AND DEATHS,

AND OF DIVORCE.

GENERAL LAWS, CHAPTER 100.

OF THE REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS.

SECTION 1. The town clerks of the several towns, or any person whom the board of aldermen of any city, or the town council of any town, may appoint for that purpose, shall obtain, chronologically record and index, as required by the forms prescribed by section three of this chapter, all information concerning births, marriages, and deaths occurring among the inhabitants of their respective towns; and on or before the first Monday in March, annually, shall make duly certified returns thereof to the secretary of the state board of health for the year ending on the thirty-first day of December next preceding, accompanying the same with a list of the persons required by law to make returns to them who have neglected to do so, and with such remarks relating to the object of this chapter as they may deem important to communicate.

SEC. 2. The secretary of the state board of health shall receive the returns made in pursuance of the preceding section, and annually make a general abstract and report thereof, in form as prescribed by section three of this chapter, and publish not exceeding one thousand copies thereof; and for preparing, tabulating, and publishing said annual report such sum as may be provided by law shall be paid to the state registrar. Said returns, after such report is prepared, shall be deposited in the office of the secretary of state, who shall cause the same to be arranged, full alphabetical indices of all the names to be made, and the whole to be bound in volumes of convenient size and carefully preserved in his office.

- SEC. 3. The blank forms required to carry out the provisions of this chapter shall, on application, be furnished by the secretary of the state board of health to clergymen, physicians, undertakers, town clerks, clerks of meetings of the Society of Friends, and other persons requiring them. substantially as follows: The record of a birth shall state the date and place of birth, name of the child if it has any, the sex and color of the child, whether born alive or still-born, the name and surname, color, residence, and birthplace of the parents, and the occupation of the father, and the time of recording, so far as the same can be ascertained. The record of a marriage shall state the date of the marriage, place, name, residence, and official station of the person by whom married, names and surnames of the parties, age, color, occupation, and residence of each, condition, that is, whether single or widowed, what marriage, that is, whether first, second, third, or other marriage, the occupation, birthplace, and name of their parents, and the time of recording, so far as the same can be ascertained. The record of deaths shall state the date of the death, name and surname of deceased, the sex, color, and condition, whether single or married, age, occupation, place of death, place of birth, names and birthplace of parents, disease or cause of death, and the time of recording, so far as can be ascertained.
- SEC. 4. Every meeting of the Society of Friends, clergymen, and all others authorized to join persons in marriage, shall make a faithful record of every such rite performed by them, in manner and form aforesaid, and return the same for the last preceding month, on or before the second Monday of every month, to the town clerk of the town in which such rite shall have been performed; and no marriage shall be solemnized until the parties shall have signed and delivered to the person about to solemnize it, or to a clerk of a meeting of the Society of Friends, a certificate containing the information required for the record of a marriage, as prescribed by this chapter,
- Sec. 5. The town clerk of every town shall annually, in the month of January, collect the information required by this chapter, in relation to all children born in the town during the year ending on the thirty-first day of December next preceding.
- SEC. 6. Physicians and midwives shall, on or before the fifth day of each month, report to the clerk of each city or town a correct list of all children born therein during the month next preceding, at whose birth they were present, stating the date and place of each birth, the name of the child if it has any, the sex and color of the child, the name, place of birth and residence of the parents, and the occupation of the father. The fee of the physician or midwife shall be twenty-five cents for each birth so reported, and shall be paid by the city or town in which the report is made.
- SEC. 7. Whenever any person shall die, or any still-born child shall be brought forth in this state, the physician attending at such bringing forth

or last sickness, if any physician so attended, shall, within forty-eight hours after such death or bringing forth, leave with the family, if any, or person having the care of the deceased, or the person bringing forth such still-born child, or give to the undertaker or person who conducts the funeral, a certificate stating, in case of a death, the name of the deceased, the date of the death, and the disease or cause of the death; and in case of the bringing forth of a still-born child, the date and the cause of such child being brought forth still-born: Provided, however, that if the physician last in attendance shall not have knowledge of such death, or is otherwise reasonably prevented from leaving with the family or giving the undertaker such certificate within the time hereinbefore specified, or before the funeral or disposal of the remains of the deceased, he shall, within five days after having knowledge of such death by notification or otherwise, send to the town or city clerk or registrar of the town or city in which such death occurred a certificate, stating the name, date, and disease or cause of death of such decedent.

SEC. 8. Every town council may appoint a sufficient number of persons to act as undertakers, removable at the pleasure of such council.

SEC. 9. No undertaker or other person shall conduct a funeral, or bury or deposit in a tomb, or remove from this state or otherwise dispose of the remains of any deceased person or still-born child, unless he shall first obtain the physician's certificate required by section seven of this chapter, if a physician was in attendance upon such person who has deceased or the person bringing forth such still-born child, and shall return the same, together with his own certificate of the information required by section three of this chapter, to the town clerk of the town where such death or bringing forth took place: Provided, however, that in such towns as allow the burial or removal of bodies of deceased persons without a permit from the town clerk, and if the undertaker or other person who has charge of the disposal of the remains of the deceased person is unable to obtain the said physician's certificate, after reasonable attempts therefor, before the burial or removal of the said remains, then the said undertaker or other person shall make his return as required by section three of this chapter, including the cause of death and the name of the physician last in attendance upon the deceased, immediately to the town or city clerk or registrar of the town or city in which the death occurred. He shall, also, within two days thereafter, notify the physician last in attendance upon the deceased person of the name and date of death of the same.

SEC. 10. Clergymen of all denominations who officiate at the funerals of decedents when no undertaker is in attendance shall, when requested by the state registrar, or the town or city clerk or registrar of the town or city in which such deaths occurred, make returns of such deaths in the same manner and with the same compensation as undertakers.

Sec. 11. Any town may make ordinances more effectually to attain the objects herein contemplated.

SEC. 12. The town clerks, or persons appointed as aforesaid, shall receive for each record of a death made and returned as required by law, and for each record of a marriage made and returned as required by law, twenty cents, to be paid to them out of their respective town treasuries: Provided, that the yearly compensation to be paid out of the town treasury as aforesaid, to any one town clerk or person appointed as aforesaid, who shall perform the duties prescribed by this chapter, shall not be less than five dollars. Undertakers and others making returns of deaths, as required by sections seven and nine of this chapter, shall receive for each full report of a death made to the town clerk, five cents in the cities of Providence and Newport, and ten cents in the other towns of the state.

SEC. 13. Every clergyman, physician, midwife, undertaker, town clerk, clerk of any meeting of the Society of Friends, or other person who shall willfully or unreasonably neglect or refuse to perform any of the duties imposed on or required of him by this chapter, shall be fined not exceeding twenty dollars nor less than two dollars for each offence; one-half thereof to the use of the town in which the offence shall occur, and one-half thereof to the use of the person who shall complain of the same.

SEC. 14. Every clergyman, physician, coroner, undertaker, medical examiner, or clerk of any meeting of the Society of Friends, shall cause his name, residence, and post-office address to be recorded in the town clerk's office of the town where he resides.

Sec. 15. No letters of administration or letters testamentary shall be granted by any court of probate upon the estate of any person, until the death of such person, or the facts from which the same is presumed, shall be duly certified, as near as may be, to the town clerk, in order that the same may be duly registered according to the provisions of this chapter.

Sec. 16. The town and city clerks, and registrars of the several towns and cities, shall have the custody of all records of births, deaths, and marriages of their respective towns, whether made under the statutes now in force or any former statute, and a certificate signed by them, certifying that any written or printed statement of any marriage, birth, or death is a true copy of the record in their custody, shall be admitted as evidence of such marriage, birth, or death.

Sec. 17. Births, marriages, and death of non-residents shall be distinguished from those of residents in the returns by being arranged separately.

SEC. 18. The secretary of the state board of health may from time to time vary the forms of returns, and require such additional information as he may consider necessary to accomplish the object of this chapter.

Sec. 19. The town clerks or other officers appointed under this chapter to collect, record, and return the births in the several cities and towns, shall receive fees therefor as follows: For making record and return of

these facts as required by law, twenty cents for each entry and return; to be paid by the city or town in which the birth is recorded.

SEC. 20. The clerk or registrar of each town and city shall, on the first day of each and every month, make a certified copy of all births, marriages, and deaths recorded in the books of said town or city during the previous month, whenever the parents of the child born, or the bride or the groom, or the deceased person, were resident in any other town or city in this state, or in any other state, at time of said birth, marriage, or death; and shall transmit such certified copies to the clerk or registrar of the town, city, or state in which such parents of the child born, the bride or the groom, or the deceased, were resident at the time of said birth, marriage, or death, stating, in case of a birth, the name of the street and number of the house, if any, where such parents resided, the place of birth of such parents, and the maiden name of the mother, whenever the same can be ascertained; and the clerk or registrar so receiving such certified copies shall record the same in the books kept for recording births, marriages, and deaths. Such certified copies shall be made upon blanks to be furnished for that purpose by the secretary of the state board of health.

SEC. 21. The town clerks of the several towns, or other persons appointed under this chapter to collect the births in the several towns, shall annually in the month of January collect the facts concerning the births within their respective towns, required by this chapter, and shall, so far as practicable, at the same time collect the names of all persons liable to be enrolled in the militia, as required by title thirty-four, and the census of all persons between the ages of five and fifteen years inclusive, as provided by chapter fifty-four, and shall receive therefor such compensation as the town council or the board of aldermen of their respective cities shall determine: *Provided*, that the city of Providence shall be exempt from so much of the provisions of this section as relates to the collection of the statistics of births.

SEC. 22. Blanks for the foregoing purposes shall be furnished, on application therefor, on or before the first day of December in the year preceding, by the state board of health for the collection of births, by the adjutant-general for the taking of the enrolled militia, and by the commissioner of public schools for the census aforesaid.

SEC. 23. The person or persons who shall discharge the duties required by section twenty-one of this chapter, if other than the town clerk, shall make full return thereof to the town clerk of his or their town, on or before the tenth day of February next following.

SEC. 24. The returns required to be made by the clerks of the appellate division of the supreme court, in relation to divorces, to the secretary of the state board of health, or a prepared abstract thereof, shall be published in the annual report of the births, marriages, and deaths in the state.

SYNOPSIS OF THE LAW OF MARRIAGE.

GENERAL LAWS, CHAPTER 191.

SECTIONS 1, 2, and 3 show what kindred persons cannot marry, and declare marriages within prohibited degrees null and void.

Section 4 makes an exception in favor of Jews, within the degrees of affinity or consanguinity allowed by their religion.

Section 5 declares the marriage of persons having a husband or wife living, and of idiots and lunatics, absolutely void.

Sec. 6. Any minister or elder of any religious denomination who shall be *domiciled* in the state, and shall have *registered* with the town clerk and have received a *license*, may join persons in marriage in this state.

Section 7 designates who shall be considered as belonging to a religious denomination within the meaning of the preceding section.

SEC. 8. Wardens in the town of New Shoreham may join persons in marriage in said town.

Section 9 designates who may join persons in marriage when solemnized among Quakers, or among persons professing the Jewish religion.

SEC. 10. Persons intending to be joined together in marriage in this state must first obtain a license from the town or city clerk of the town in which they respectively reside, or, if not residents of the state, from the clerk of the town or city in which the marriage is to be solemnized. The license shall contain the information called for so far as the same is known to such persons, each of whom shall subscribe to the truth of the same in the presence of the clerk or an assistant clerk of that town or city in which they respectively reside. For issuing such license the town or city clerk shall be entitled to a fee of one dollar: *Provided*, that when the persons intending to be joined in marriage live in different towns or cities in this state the fee shall be fifty cents in each town or city. Such license shall be presented to the minister, elder, justice, warden, or other person who performs the marriage ceremony.

Section 11 provides for the control of marriages of minors, and requires the written consent of the parent or guardian before the information provided for in section ten can be given. Persons over eighteen years of age, however, who may have no parent or guardian, may make oath relative to that fact to the city or town clerk, and may then give the required information called for in the application.

Section 12 requires that *each* of the persons married must present to the officiating clergyman a certified copy, as provided in section ten. These

must also be signed by the respective parties to the marriage in the presence of the clergyman. This is intended to identify the parties as being the same who appeared for the certificate from the town clerk.

Section 13 requires that the officiating clergyman shall endorse the certificate stating that he has joined the parties in marriage, and also that two witnesses of the marriage shall append their signatures. It also provides that the minister shall make a return of the certificate to the town clerk on or before the second Monday of the month succeeding the date of the marriage.

SECTION 14 provides for the care and preservation of the records.

SECTION 15 provides for the work of registration in the city of Providence to be done by the city registrar.

SECTION 16 provides for the recording of the returned certificates in the office of the town clerk, and the final lodgment of the certificates with the secretary of state. These are there to be properly indexed, and open to inspection only in the presence of some one connected with the office of the secretary of state.

Section 17 provides that two witnesses shall be present at the marriage ceremony.

Section 18 provides that lawful objection to a marriage shall be made in writing, and the officiating elergyman shall not proceed with the marriage until the objection is removed.

Section 19 provides for a penalty of six months imprisonment, or a fine of one thousand dollars, for joining persons in marriage without first having been presented with the certified copies required in section ten, or without having first returned any lawful objection to the marriage.

Section 20 provides for a penalty a fine of not exceeding one hundred dollars, for failure to perform any of the duties devolving upon the officiating officer under this chapter.

SECTION 21 provides for a fine for joining persons in marriage who have a husband or wife living.

Section 22 provides that no marriage shall be deemed or adjudged to be void by any failure on the part of the officiating officers to comply with the law, if the marriage is in other respects lawful and has been performed with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

SEC. 23. Every person who shall solemnize a marriage without being legally authorized thereto shall be fined five hundred dollars.

GENERAL LAWS, CHAPTER 195.

OF DIVORCE.

SECTION 1. Divorces from the bond of marriage shall be decreed in case of any marriage originally void or voidable by law, and in case either party is for crime deemed to be or treated as if civilly dead, or from absence or other circumstances may be presumed to be actually dead.

SEC. 2. Divorces shall be decreed for impotency, adultery, extreme cruelty, willful desertion for five years of either of the parties, or for such desertion for a shorter period of time in the discretion of the court, for continued drunkenness, for the habitual, excessive, and intemperate use of opium, morphine, or chloral, for neglect or refusal on the part of the husband, being of sufficient ability, to provide necessaries for the subsistence of his wife, and for any other gross misbehavior and wickedness in either of the parties repugnant to and in violation of the marriage covenant.

SEC. 3. Whenever in the trial of any petition for divorce from the bond of marriage it shall be alleged in the petition that the parties have lived separate and apart from each other for the space of at least ten years, the court may in its discretion enter a decree divorcing the parties from the bond of marriage, and may make provisions for alimony.

SEC. 4. Whenever it shall appear that the absence, adultery, cruelty, desertion, or other cause of complaint as aforesaid was committed or occasioned by the collusion of the parties, and done and contrived with an intention to procure a divorce, in such case no divorce shall be decreed.

SEC. 5. Whenever a divorce is granted for fault on the part of the husband, the wife shall have dower as if the husband were dead; but such dower shall be claimed on proceedings begun within six months after the absolute decree, and, if not claimed within said period, or if claim be made for alimony within said period, then dower shall be deemed to be waived and released, and the only relief of the wife shall be a claim for alimony chargeable upon the estate of the husband, or some specific portion thereof as the court may decree: Provided, that in case of such divorce between parties married before the Digest of eighteen hundred forty-four went into operation, the wife shall be re-instated in all of her real estate, and have restored to her all of her personal estate not, in either case, disposed of at the date of the filing of the petition for said divorce.

SEC. 6. Whenever a divorce is granted for fault on the part of the wife, the husband, if he be entitled to curtesy-initiate, shall have a life estate in all the lands of the wife as if the wife were dead, but subject to such

allowance to the wife, to be charged on such life estate, as the court in the peculiar circumstances of the case may deem just and proper.

- SEC. 7. Otherwise than as provided in the two preceding sections neither husband or wife, on divorce being granted, shall have any right in the estate of the other.
- SEC. 8. Divorces from bed, board, and further cohabitation, until the parties be reconciled, may be granted for any of the causes for which by law a divorce from the bond of marriage may be decreed, and for such other causes as may seem to require the same. In case of such divorce the court may assign to the petitioner a separate maintenance out of the estate or property of the husband or wife, as the case may be, in such manner and of such amount as it may think necessary or proper.
- SEC. 9. Every petition shall be signed by the petitioner, if of sound mind and of legal age to consent to marriage; otherwise, upon application to the court, and after notice to the party in whose name the petition shall be filed, the court may allow such petition to be signed by a guardian or next friend.
- SEC. 10. No petition for divorce shall be granted unless the petitioner shall at the time of preferring such petition be a domiciled inhabitant of this state, and have resided therein for the period of one year next before the preferring of such petition.
- SEC. 11. All such petitions shall be filed, heard, and tried in Providence, unless the petitioner shall reside in the county of Newport or in the county of Washington, in which case such petition shall be filed, heard and tried in Newport or South Kingstown respectively.
- SEC. 12. The court may by general rule determine the return-day of petitions for divorce and prescribe the notice to be given, within or without the state, on all such petitions, and may issue such process as may be necessary to carry into effect all powers conferred upon it in relation to the same; and said court may also, by general rule, fix the times, during its session, when all petitions for divorce shall be heard, as they may be filed in Providence, Newport, or South Kingstown, respectively. Such general rules shall, however, be subject to such special orders as the court may make in special cases. And, until general rules are made, special order in each case shall be made.
- SEC. 13. Whenever any petition for divorce shall have been filed or be pending in the appellate division of the supreme court, and said court shall be of the opinion that sufficient notice of the pendency of said petition shall not, from any cause, have been given to the adverse party, said court may order notice or further notice to the adverse party to be given in such manner as the court may prescribe.
- SEC. 14. The said court may regulate the custody and provide for the education, maintenance, and support of the children of all persons by them divorced or petitioning for a divorce, and all persons to whom a separate

maintenance may be granted or who may petition for the same; may in its discretion make such allowance to the wife, out of the estate of the husband, for the purpose of enabling her to prosecute or defend against any such petition for divorce or separate maintenance, in case she has no property of her own available for such purpose, as they may think reasonable and proper; and may make all necessary orders and decrees concerning the same, and the same may at any time alter, amend, and annul for sufficient cause, after notice to the parties interested therein.

SEC. 15. Any woman to whom a divorce from the bond of marriage is decreed may be authorized by such decree to change her name, subject to the same rights and liabilities as if her name had not been changed.

SEC. 16. After the filing and during the pendency of any petition for divorce the said court may make such interlocutory decrees and grant such temporary injunctions as may be necessary until a hearing can be had before said court.

GENERAL LAWS. CHAPTER 225.

OF DIVORCES.

Section 9. The clerks of the appellate division shall make returns to the secretary of the state board of health, on or before the first day of March in each and every year, for the year ending on the thirty-first day of December preceding, of all the applications for divorce, showing the number of applications, the number thereof continued, the number granted, and the causes for which the same are granted, but without the names of the parties, in accordance with the blanks which shall be furnished them by the secretary of state.

GENERAL LAWS. CHAPTER 287.

OF MEDICAL EXAMINERS AND CORONERS.

Section 1. The governor shall appoint, in each county, able and discreet men, learned in the science of medicine, to be medical examiners in such county.

SEC. 2. The number of medical examiners appointed as provided in the preceding section shall be as follows:

For the county of Washington five examiners, one in each of the five following districts, viz.: District one, composed of the town of Westerly; district two, of the town of South Kingstown; district three, of the town

of Hopkinton; district four, of the towns of North Kingstown and Exeter; district five, of the towns of Charlestown and Richmond.

For the county of Kent two examiners, one in each of the two following districts, viz.: District one, composed of the towns of West Greenwich and Coventry; district two, of the towns of East Greenwich and Warwick.

For the county of Providence eleven examiners, one in each of the first nine following districts, and in district ten two examiners, viz.: District one composed of the towns of Scituate and Foster; district two, of the towns of Cranston and Johnston; district three, of the town of Gloeester; district four, of the towns of Smithfield and North Providence; district five, of the towns of Burrillville and North Smithfield; district six, of the city of Woonsocket; district seven, of the town of Cumberland; district eight, of the cities of Pawtucket and Central Falls and the town of Lincoln; district nine, of the town of East Providence; district ten, of the city of Providence.

For the county of Bristol, two examiners, one in each of the following districts, viz.: District one, composed of the towns of Barrington and Warren; and district two, of the town of Bristol.

*The number of medical examiners for the county of Newport shall be five, one in each of the first three districts and two in district four: and said districts shall be composed as follows: District one, of the towns of Tiverton and Little Compton: district two, the town of Portsmouth: district three, the town of New Shoreham: district four, the city of Newport and the towns of Middletown and Jamestown.

- SEC. 3. If either of the medical examiners shall, at any time, from any cause, be unable to perform the duties of his said office, or shall be deemed by the attorney-general for any cause disqualified therefor, a medical examiner from an adjoining district may be called upon to perform them.
- SEC. 4. Every medical examiner shall hold his office for the term of six years, and until another is appointed and qualified to act in his place, unless sooner removed by the appointment of some other person to fill his place.
- SEC. 5. Every medical examiner shall, within thirty days after his appointment, and before entering upon the duties of his office, give bond with surety to, and to the satisfaction of, the general treasurer in the sum of one thousand dollars for the faithful performance of his duties.
- SEC. 6. If the condition of any such bond be broken, to the injury of any person, actions may be brought upon such bond as upon the official bonds of sheriffs.
- SEC. 7. Medical examiners shall make examinations as hereinafter provided, upon bodies of such persons only as are supposed to have come to their death by violence: *Provided*, that in case any prisoner in the state

^{*}As amended April 16, 1896.

prison or in any county jail dies while so imprisoned, it shall be the duty of the medical examiner of the district in which such prison or county jail is situated, upon being notified of the death of such prisoner, to make at once an examination upon the body of such deceased prisoner.

- SEC. 8. When a medical examiner has notice that there has been found, or is lying, within his district the body of a person who is supposed to have come to his death by violence, he shall forthwith repair to the place where such body lies and take charge of the same; and if, on view thereof and personal inquiry into the cause and manner of the death, he deems a further examination necessary, he shall, upon being thereto authorized in writing by the attorney-general, or by the mayor of the city or president of the town council of the town where such body lies, make an autopsy in the presence of two or more discreet persons as witnesses, and shall then and there carefully reduce, or cause to be reduced, to writing every fact and circumstance tending to show the condition of the body and the cause and manner of death, together with the names and addresses of said witnesses, which record he shall subscribe. Before making such autopsy he shall call the attention of the witnesses to the position and appearance of the body.
- SEC. 9. Should the medical examiner deem it advisable to have present a physician as one of the witnesses as aforesaid, such physician shall also subscribe the record made by the medical examiner, and for such service he shall receive a compensation of five dollars.
- SEC. 10. Town councils shall select a suitable person to act as coroner for their respective towns, to hold his office for three years and until another is elected and qualified to act in his place, unless sooner removed by the election of some other person to fill his place.
- Sec. 11. The coroners so elected shall have exclusive jurisdiction as coroners in their respective towns.
- SEC. 12. The coroner shall appoint in writing, under his hand and seal, one or more discreet persons to act as his deputy in case of his absence or inability to act, who shall have all the powers of a coroner, and be subject to like pains and penalties, for malfeasance in office; and the coroner shall file a copy of the appointment in the town clerk's office of his town.
- SEC. 13. The coroner may suspend or discharge a deputy. The suspension or discharge of a deputy shall be in writing, addressed to the deputy; and the coroner shall forthwith file a duplicate thereof in the town clerk's office of his town.
- SEC. 14. Every coroner and deputy coroner shall, before entering upon the duties of his office, take the engagement prescribed in section five of chapter twenty-five.
- SEC. 15. Whenever the coroner has notice that there is in his town any person who has been injured by the criminal act, omission, or carelessness of another, and that said person believes that his death is impend-

ing from such injury, said coroner may take the statement of such person concerning the manner in which, and the person by whom, such injury was inflieted; and the statement so taken shall be reduced to writing and, if practicable, in the presence of the injured person.

SEC. 16. If, upon such view, personal inquiry or autopsy, the medical examiner is of the opinion that the death was caused by the act or neglect of some person other than the deceased, he shall at once notify the attorney-general, and coroner of the town where the body was found, or in which it lies, and shall file a duly attested copy of the record of his autopsy, or view, with the said coroner and a like copy with the attorney-general; and shall in all cases certify to the officer having the custody of the records of deaths in the town in which the deceased came to his death, the name and residence of the person deceased, if known, or, when the name and residence cannot be ascertained, a description of the deceased, as full as possibly may be, for identification, together with the cause and manner by and in which he came to his death.

SEC. 17. The coroner shall thereupon hold an inquest, which may be private; in which case any or all persons, other than those required to be present by the provisions of this chapter, may be excluded from the place where such inquest is held, and such coroner may also direct the witnesses to be kept separate so that they cannot converse with each other until they have been examined. The attorney-general, or some person designated by him, may attend the inquest and examine all witnesses; and the coroner shall cause the testimony to be reduced to writing and signed by the witnesses. The attorney-general may, if he deem it necessary or expedient, direct an inquest to be held in the case of any casualty from which the death of a person results.

SEC. 18. The coroner may issue summons for witnesses, returnable before him. The persons served with such process shall be allowed the same fees, their attendance may be enforced in the same manner, and they shall be subject to the same penalties, as if served with a summons in behalf of the state in a criminal prosecution pending before a district court.

SEC. 19. The coroner shall, after hearing the testimony, draw up and sign a report, in which he shall find and certify when, where, and by what means the person deceased came to his death; his name, if known, and all material circumstances attending his death; and if it appears that his death resulted wholly or in part from the unlawful act of any other person, he shall further state the name of such person, if known to him, and he shall file such report, and the testimony by him taken, together with a copy of the record of the autopsy or view, in the office of the clerk of the court wherein an indictment for the offence may be found.

SEC. 20. The coroner shall bind such witnesses as he deems necessary, or as the attorney-general may designate, by recognizance in a reasonable sum, with sufficient surety, to personally appear, at such time as the

coroner]may designate, at the district court of the district wherein the inquest is held, and not depart therefrom until discharged by said court; and if any such witness shall refuse to recognize as aforesaid, the coroner shall commit such witness to the jail in the same county, there to remain until he shall so recognize or be otherwise discharged according to law.

SEC. 21. If the report of the coroner shall state that the death was caused by the unlawful act or by the gross carelessness of any other person, and by whose act the same was committed, he shall immediately make a complaint thereof against the person accused, in writing and on oath, to the justice or clerk of the district court in the district where the offence was committed, to the intent that the person killing or being in any way criminally instrumental to the death may be apprehended; but nothing herein contained shall be so construed as to prevent complaint being made at any time before the finding of the report. And the coroner shall forthwith, in writing, notify the attorney-general of the complaint aforesaid, that he may appear by himself or some person appointed by him, at the examination, and prosecute the claim in behalf of the state.

SEC. 22. If a medical examiner reports that a death was not caused by the act or neglect of some person other than the deceased, and the attorney-general is of a contrary opinion, the attorney-general may, notwithstanding such report, direct an inquest to be held in accordance with the provisions of this chapter; at which inquest he, or some other person designated by him, shall examine all the witnesses.

SEC. 23. The medical examiner may, if he deem it necessary, employ a chemist to aid in the examination of the body, or of substances supposed to have caused or contributed to the death; and such chemist shall be entitled to such compensation for his services as the medical examiner certifies to be just and reasonable, the same being audited and allowed in the manner hereinafter provided.

SEC. 24. When a medical examiner views or makes an examination of the dead body of a stranger, he shall cause the body to be decently buried; and if he certifies that he has made careful inquiry, and that to the best of his knowledge and belief the person found dead is a stranger, having no settlement in any town of the state, his fees, with the actual expense of burial, shall be paid from the general treasury. In all other cases the expense of the burial shall be first paid by the town wherein the body is found, and such town may recover the money so paid from the town where such person last had a settlement: *Provided, however*, that the general treasurer, or any town, ultimately paying any such burial expenses, shall have the right to recover such burial expenses from the estate of the deceased person.

SEC. 25. When services are rendered in bringing to land the dead body of a person found in any of the harbors, rivers, or water of the state, the medical examiner may allow such compensation for such services as he

deems reasonable; but this provision shall not entitle any person to compensation for services rendered in searching for a dead body.

Sec. 26. In all cases arising under the provisions of this chapter, the medical examiner shall take charge of any money or other personal property of the deceased, found upon or near the body, and shall deliver the same to the person entitled to its custody or possession; or if not claimed by such person within sixty days, then to an administrator, to be administered upon according to law.

SEC. 27. A medical examiner who fraudulently neglects or refuses to deliver any such property within three days, after demand upon him therefor, shall be imprisoned not exceeding two years or be fined not exceeding five hundred dollars.

SEC. 28. The fees of coroners shall, for the services specified in this chapter, be as follows, namely: For receiving and filing a duly attested copy of the record of an autopsy, fifty cents; for every page of two hundred words of written testimony, thirty cents; for each day's attendance in holding the inquest, five dollars; for the recognizance of witnesses, thirty-five cents; and for drawing up and filing a report in court, five dollars. Said fees having been audited by the state auditor, upon certificate of the attorney-general, shall be paid by the general treasurer.

SEC. 29. Each medical examiner shall receive fees as follows: For a view without an autopsy, four dollars; for a view and an autopsy, thirty dollars; and for travel, at the rate of ten cents a mile to the place of view. He shall also have power, in case of an autopsy, to employ a clerk at an expense not exceeding three dollars per day for each day's actual service.

SEC. 30. Every medical examiner shall return an account of the expenses of each view or autopsy, including his fees, to the state auditor, and shall annex to his return the written authority under which the autopsy was made. The state auditor shall audit such account and certify to the general treasurer what items in such account are deemed just and reasonable, and such items shall be paid by said treasurer to the persons entitled to receive the same.

SEC. 31. Medical examiners shall, in the books provided by the secretary of state, keep a record of all views of bodies found dead, together with their view and autopsy reports, and, on the first of January, April, July, and October, shall forward to the secretary of the state board of health attested copies of such records of views, together with the view reports and conclusions from autopsies. Should the commission of service of a medical examiner expire before the end of a quarter, the said examiner shall at once forward to the said secretary of the state board of health the records and reports of all cases unreported at date of expiration of said service.

SEC. 32. For each and every copy of said records and reports forwarded to the said secretary of the state board of health, medical examiners shall

receive twenty-five cents, which shall be paid by the state upon the voucher of said secretary of the state board of health that such copy of reports and records have been received by him.

SEC. 33. The secretary of the state board of health shall cause the returns received by him for each year, in accordance with this chapter, to be bound together with an index thereto; the state registrar shall prepare or cause to be prepared from the said returns such tabular results as will render them of practical utility, and shall make report thereof annually in connection with the report of births, marriages, and deaths required by chapter one hundred.

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this group has been added atelectasis pulmonum, also cholera infantum. Convulsions is allowed to remain. Although every effort is made to ascertain the cause of this symptom, and it is frequently dependent upon intestinal disturbances as well as nervous derangements, yet it is impossible for the physician to ascertain the provoking cause. As it is not sufficiently "ill-defined" to be relegated to that group, being a disease of childhood, it is placed in this group.

Under Developmental Diseases of Women the various subdivisions of the causes of death in childbirth have been given and an effort made to obtain these special causes rather than let them remain as simply "childbirth."

Diseases of nutrition are omitted, as atrophy or debility is found to be either in the group of old age, or diseases of infants, or caused by some disease which can be ascertained. If the cause is not evident to the physician, it is evidently a cause unknown, and should be classed as such.

Under the group Accident or Negligence, the term fractures or contusions is omitted, as it is ascertained in every case what caused these injuries. The results of the injuries are treated of as supplemental, as is also the instrument causing the injury, or the form of poison, or the method of drowning, etc. The division Various is subdivided into more specific causes, and introduces into this group electric-car accidents, falls, fire-arms, machinery, overdose of medicine, railroad, and "otherwise."

Under Causes Ill-defined, and which are invariably inquired into for more satisfactory information, there are a large number which may be found in the supplementary list. Blood poisoning is due usually to some known traumatic or infectious cause, as is septicemia. When not known it is ill-defined. The cause of coma should be given if known, as it may be from cerebral hemorrhage or from uramia. Convulsions, not infantile, are usually due to some traceable cause. Ascites, colic, dropsy, exhaustion, and inflammation are symptoms and not causes. Debility and asthenia not infantile and not senile can usually be traced to some definite change in the system, otherwise it is ill-defined. It has been customary heretofore for physicians to give as a cause of death "heart failure," meaning that the heart ceased its action or that the cause was a natural one not accompanied by violence. It is generally admitted that this is unsatisfactory, and with this compilation, when the cause of the heart failure cannot be obtained, it is classed as ill-defined. While peritonitis may be idiopathic, in most instances a cause of the peritonitis has been ascertainable; it has been classed as ill-defined if no cause is Shock, when occurring as surgical shock, being usually

the result of accident or surgical operation, is classed under these groups. When no accompanying cause is given, as might be the case from fright, or sudden joy, the cause is usually due to some abnormality of the nervous system or disease of the heart, and in the absence of the specific cause must be placed under ill-defined. When given as a single cause in cases of cerebral hemorrhage or apoplexy, the latter cause can be ascertained by inquiry, and proves to be the cause in most instances. The following list comprises those causes which have been returned and, not being sufficiently definite, have led to inquiry from the physician in attendance. The only causes which cannot be more explicitly defined, and are sufficient as primary causes, are appendicitis and hernia. In these two instances inquiry is made as to whether an operation was performed for relief of the condition. In acute gastritis it is desirable to ascertain if the condition was due to the ingestion of some irritant, as alcohol, poison, or is the result of indigestion. More specific cause is asked for in childbirth, miscarriage, premature birth, and still-birth, in order to determine in as many cases as possible what was the condition of the mother or the complication in confinement which has led up to the result which is the cause of the death of the child. By spinal disease is sometimes meant disease of the spinal cord, in other cases diseases of the spinal column, and calls for inquiry.

Abscess, Accident, Appendicitis. Ascites, Asphyxia, Asthenia, Blood Poisoning, Bowels, perforation of, Burns, Brain, concussion of, Brain trouble, Brain fever, Cancer. Carbuncle, Childbirth, Colic, Convulsions, Coma, Croup, Debility. Dentition,

Dropsy, Drowning. Eclampsia, Ervsipelas. Exhaustion, Fever. Fistula, Fractures, Gangrene, Gastritis, Acute, Heart Failure, Heart trouble. Heart, paralysis of, Hernia, Hæmorrhage, Homicide, Inflammation, Laryngeal obstruction, Lungs, Œdema of,

Diabetes,

Malformation, Marasmus, Miscarriage, Mortification, Natural causes. Necrosis, Peritonitis, Poisoning, Premature Birth, Scalds, Septicæmia, Shock, Spasms. Spinal Disease, Stillborn, Strangulation, Suffocation, Suicide, Tumor. Wounds.

NOMENCLATURE OF CAUSES OF DEATH.

CLASSES.

1.	General Diseases.—A.	SPECIFIC AND FEBRILE	E. (Zymotic.)
II.	General Diseases.—B.	CACHETIC.	(Constitutional.)
III.	General Diseases.—A.	FUNCTIONAL OR ORGAN	SIC. (Local.)
IV.	Special Diseases.—B.	DEVELOPMENTAL.	(Developmental.)
V.	Violence. —C.	FROM INJURIES, ETC.	(Violent)

SUB GROUPS OR ORDERS.

CLASS I.—Zymotic Diseases.

GROUP ONE, Communicable. GROUP TWO, Dietic.

CLASS II.—Constitutional Diseases.

GROUP ONE, Diathetic.

CLASS III.-Local Diseases.

GROUP ONE, Diseases of the Nervous System. GROUP TWO, Organs of Circulation. GROUP THREE, Organs of Respiration. GROUP FOUR, Organs of Digestion. GROUP FIVE, Urinary Organs. GROUP SIX, Reproductive Organs. GROUP SEVEN, Osseous and Locomotory Organs. GROUP EIGHT, Integumentary System.

CLASS IV.—Developmental Diseases.

GROUP ONE, Of Children. GROUP TWO, Of Women. GROUP THREE, Of Old Age.

CLASS V.—Deaths by Violence.

GROUP ONE, Accidents and Negligence. GROUP TWO, Homicide. GROUP THREE, Suicide.

STATISTICAL NOSOLOGY.

CLASS I.—Zymotic Diseases.

TABULAR LIST.	SUPPLEMENTAL LIST.
Group One.—Communicable. I. Oue.—1. Varicella. 2. Measles 3. Searlet Fever. 4. Diphtheria. 5. Small-Pox 6. Tonsilitis. 7. Carbuncle. 8. Erysipelas. 9. Fever, Puerperal. 10. Malignant Pustule. 11. Meningitis, Cerebro Spinal. 12. Tetanus. 13. Fever, Malarial. 14. Fever, Typhoid. 15. Influenza. 16. Parotitis. 17. Pertussis 18. Pneumonia. 19. Gonorrhæa 20. Syphilis. 21. Hydrocephalus. 22. Scrofula. 23. Tabes Mesenterica. 24. Tubercular Laryngitis. 25. Tubercular Meningitis 26. Tubercular Peritonitis. 27. Tuberculosis, General.	GROUP ONE.—Communi cable. I. One.—1. Chicken-Pox. Miliaria. Roseola. 2. Rotheln. 3. Scarlet Fever. 4. Membraneous Croup. 6. Quinsy. 7. Anthrax. Gangrenous Boil. 8. Hospital Gangrene. Pyæmia. 12. Laryngismus. Lockjaw. Trismus Nascentium. 16. Munps. 17. Whooping Cough. 18. Congestion of Luugs. 19. Stricture of Urethra. Gonorrhœal Opthalmia. 22. Psoas (Lumbar) Abscess. Goitre. Adenitis. Lymphangitis. Morbus Coxarius. Pott's Disease. 27. Hæmoptysis.
Group Two.—Dietic.	Group Two.—Dietic.
I. Two.—1. Alcoholism 2. Inanition 3. Purpura and Scurvy	I. Two, -1. Delirium Tremens. Intemperance.

CLASS II.—Constitutional Diseases.

GROUP ONE.—Diathetic. II. One.—1. Anæmia		
2. Cancer, Abdomen Chlorosis. 3. Cancer, Breast 10. Rheumatic Carditis. 4. Cancer, Face Rheumatic Synovitis. 5. Cancer, Liver Gout. 7. Cancer, Stomach 8. Cancer, Uterus 9. Cancer, Various.	Group One.—Diathetic.	GROUP. ONE—Diathetic.
	2. Cancer, Abdomen 3. Cancer, Breast 4. Cancer, Face 5. Cancer, Liver 6. Cancer, Rectum 7. Cancer, Stomach 8. Cancer, Uterus 9. Cancer, Various	Chlorosis. 10. Rheumatic Carditis, Rheumatic Synovitis.

CAUSES OF DEATH.

CLASS III.—Local Diseases.

TABULAR LIST.	SUPPLEMENTAL LIST.
GROUP ONE.—Nervous System.	
III. One.—1. Apoplexy and Paralysis 2. Cerebritis 3. Chorea 4. Epilepsy 5. Insanity 6. Meningitis 7. Meningitis, Spinal 8. Brain Diseases* 9. Nerve Diseases* GROUP Two.—Circulatory System. III. Two.—1. Aneurism 2. Angina Pectoris 3. Endocarditis	III. One.—1. Cerebral Hemorrhage. Locomotor Ataxia. Paresis. 5 Dementia. Mania. Monomania. Melancholia. 8. Neurasthenia. Disease of Spinal Cord. 9. Hysteria. Nervons Prostration. Neuritis. Myelitis. Pleurodynia. III. Two.—7. Hypertrophy. Valvular Disease, Embolism.
4. Pericarditis	Thrombosis.
III. Three.—1. Asthma	III. Three.—1. Emphysema. 4. Œdema Glottidis. 6. Empyema.
III. Four.—1. Appendicitis	III. Four.—2. Constipation, Illeus. Obstipation. 12. Stomatitis. GEsophagitis. 15. Femoral. Inguinal. Umbileal. Ventral. 16. Stricture of GEsophagus. 17. Perforation of— 24. Dyspepsia. Gastraigh., Hæmatemesis.

STATISTICAL NOSOLOGY.

CLASS III.—Local Diseases.—Continued.

TABULAR L!ST.	SUPPLEMENTAL LIST.
GROUP FIVE.—Urinary System. III. Five.—1. Bladder Diseases*	III, Five.—1. Urethritis. 7. Hæmaturia. 8. Albuminuria.
GROUP SIX.—Generative System.	
III. Six.—1. Ovarian Diseases*	III. Six.—3. Tumor, Fibroid. Pelvic Cellulitis. Hemorrhage of.
GROUP SEVEN.—Osseous and Loco-motory System.	•
III. Seven.—1. Bones, Diseases of	III, Seven.—1. Ostitis. Periostitis. Rickets. Caries, Necrosis. 2. Synovitis. Hip Diseases, 3. Spine, Caries and Necrosis of.
GROUP EIGHT.—Integumentary System.	
III. Eight.—1. Eczema. 2. Phlegmon 3. Skin Diseases*	III. Eight.—2. Abscess, part not stated. Boil. 3. Pemphigus. Psoriasis, etc. Dermatitis.
GROUP NINE.—Organs of Special Sense. III. Nine.—1. Ossis Petrosis	

^{*} Not otherwise placed.

CAUSES OF DEATH.

CLASS IV.—Developmental Diseases.

TABULAR LIST	SUPPLEMENTAL LIST.
GROUP ONE.—Developmental Diseases of Children. IV. One.—1. Atelectasis Pulmonum 2. Cholera Infantum 3. Convulsions 4. Cynanosis. 5. Debility, Infantile 6. Premature Birth 7. Dentition 8. Hemorrhage, Umbilical 9. Icterus Neonatorum 10. Indigestion 11. Innutrition 12. Spina Bifida 13. Other Malformations	IV. Oue.—5. Asthenia. 8. Hæmorrhagic Diathesis. 11. Malnutrition. 13. Imperforate Anns. Cleft Palate.
GROUP Two.—Developmental Diseases of Women.	
IV. Two.—1. Paramenia 2. Difficult Labor. 3. Miscarriage 4. Placenta Prævia. 5. Post Pratum Hemorrhage. 6. Puerperal Eclampsia 7. Puerperal Mania 8. Puerperal Peritonitis 9. Childbirth*	tV. Two1. Climaeteria.
GROUP THREE.—Developmental Diseases of Old People.	
IV. Three.—1. Old Age 2. Debility, Scnile 3. Gangrene	
CLASS V.—Deaths	by Violence.
GROUP ONE.—Accident or Negligence.	
V. Onc.—1. Asphyxia. 2. Burns and Sealds. 3. Drowning. 4. Electric Car. 5. Falls. 6. Firearms. 7. Machinery. 8. Overdose of Medicine. 9. Poison. 10. Railroad. 11. Otherwise.	V. One.—11. Freezing. Exposure. Insolation. Lightning. Surgical Operation.

Not otherwise placed.

STATISTICAL NOSOLOGY.

CLASS V.—Deaths by Violence.—Continued.

TABULAR LIST.	SUPPLEMENTAL LIST.
Group Two.—Homicide.	V. Two.—1. Infanticide. Patricide. Matricide. Fratricide. Filicide.
GROUP THREE.—Suicide. V. Three.—1. Drowning	V. Three.—3. Arsenic. Laudanum. Paris Green. Other.
1. Causes ill-defined	1. Blood Poisoning. Coma. Convulsions (not infantile). Colic. Debility (not infantile and no
2. Causes not stated	senile). Dropsy or Ascites. Exhaustion. Heart Failure. Inflammation. Mortification.
3. Stillborn	Peritonitis. Septicemia. Shock. Dentition.

THE INTERNATIONAL SYSTEM

OF

NOMENCLATURE OF DISEASES AND CAUSES OF DEATH

(BERTILLON CLASSIFICATION)

AS ADOPTED BY THE EIGHTH INTERNATIONAL CONGRESS OF HYGIENE AND DEMOGRAPHY, PARIS, AUGUST 18-21, 1900.

(Translated in the Bureau of the Marine Hospital Service by Passed Assistant II D. Geddings.)

NOSOLOGICAL NOMENCLATURE.

(Adopted by the International Commission.)

NOMENCLATURE DESIGNED FOR STATISTICS OF PATIENTS.

1

General Diseases.

- Typhoid Fever. Exanthematous Typhus. 9
- 3 Recurrent Fever.
- Intermittent Fever and Maiarial Cach-1 exia.
- 4a. Intermittent Fever and Malariai Cachexia.
- Variola.
- Measles.
- Seariatina. Whooping Cough.
- 9, Diphtheria and Croup.
- 9a. Diphtheria. 10. Grlppe.
- 10. 11.
- Miliary Fever. Asiatle Cholera. 12.
- Cholera Nostras. 13

- 14. Dysentery.14a. Dysentery, Epidemic.15. Pest (Plague; Bubonic Plague).
- 16. Yellow Fever.
- 17. Leprosy.
- Erysipelas. Other Epidemic Affections. Purulent Infection and Septicamia. 19.
- 20
- 21. Glanders and Farey. Malignant Pustule and Charbon.
- Actinomycosis, Trichlnosis, etc.

- Peliagra.
- Tubercle of the Larynx. 26.
- Tubercle of the Lungs. Tubercle of the Meninges. 27.
- og
- Tubercie, Abdominal. Pott's Disease. 30.
- Abscess, Cold and by Congestion. Tumors, White (White Swellings). 31.
- 32 Tubercle of Other Organs.
- 34. Tuborcle, Generalized.
- Scrofula. 35. 36. Syphilis. (1) Primary; (2) Secondary; (3) Tertlary; (4) Hereditary.
 36a. Soft Chanere.
- 37.
- Riemorrhagia of the Adult. Gonococcal Infections of the Child. Cancer and Other Mallgnant Tumors of 39. the Buccal Cavity
- Cancer and Other Mallguant Tumors of the Stomach and Liver, Cancer and Other Mallguant Tumors of
- 41. the Peritonaum, Intestines, and Rec-
- tum. Caucer and Other Mailgnant Tumors of 40. the Genital Organs of the Female.
- Cancer and Other Mallgnant Tumors of 43. the Breast.
- Cancer and Other Malignant Tumors of 44.
- the Skin. Caneer and Other Malignant Tumors of Organs Not Specified. Other Tumors (Tumors of the Female 45,
- 46. Genital Organs excepted).
- 17. Rheumatism, Acute Articular.

- Rheumatism, Chronic, and Gont.
- 49. Scorbutus
- 50. Diabetes
- Goitre, Exopthalmic. Addison's Disease. 51. 52.
- 53. Leukæmia
- Anæmia and Chlorosis. Other General Diseases 54. 55.
- 56. Alcoholism, Acute and Chronic.
- 57. Saturnism.
- Other Trade Intoxications.
- Other Chronic Poisonings.

11.

Diseases of the Nervous System and the Organs of Special Sense.

- Encephalitis.
- 61. Meningitis, Simple.
 61a. Meningitis, Epidemic Cerebro-Spinal.
 62. Locomotor Ataxia, Progressive.
- Other Diseases of the Spinal Cord.
 Cerebral Congestion and Hemorrhage.
 Cerebral Softening.
 Paralysis Without Cause Assigned.
 General Paralysis. 63. 64.
- 65.
- 66.
- 67.
- 68. Other Forms of Mental Alienation.
- 69. Epilepsy.
- 70. 71. Eclampsia (non-puerperal). Convulsions of Children.
- 72. Tetanus. 73. Chorea.

- 17. Chorea.
 17. Hysteria.
 17. Neuralgia.
 17. Diseases of the Eye and Appendages.
 17. Conjunctivitis, Follicular.

- 75b. Trachoma.76. Diseases of the Ear.

III.

Diseases of the Circulatory Apparatus.

- Pericarditis.
- 78.
- Endocarditis, Acute. Organic Diseases of the Heart. 79.
- 80. Angina Pectoris.
- Anguar rectors.
 Anterions of the Arteries (Atheroma, Aneurism, etc.)
 Embolism and Thrombosis.
 Affections of the Veins (Varices, Hemorrhoids, Phlebitis, etc.)
 Affections of the Lymphotic System.

- 84. Affections of the Lymphatic System.
- 85. Hemorrhages
- 86. Other Affections of the Circulatory Apparatus.

IV.

Diseases of the Respiratory System.

- 87. Diseases of the Nasal Fossæ.
- 88.
- Affections of the Larynx.
 Affections of the Thyroid Body. 89.
- 90.
- 91.
- Bronchitis, Acute. Bronchitis, Chronic. Broncho-pneumonia.
- 93. Pneumonia.
- 94. Pleurisy.
- 95. Pulmonary Congestion and Apoplexy.
- Gangrene of Lung. 96.
- Asthma.
- Emphysema, Pulmonary. Other Diseases of the Respiratory Apparatus (Phthisis excepted).

٧.

Diseases of the Digestive Apparatus.

- Affections of the Mouth and its Adnexa.
- Affections of the Pharynx.
 Affections of the Esophagus.
 Ulcer of the Stomach. 101.
- 102. 103.
- 104. Other Affections of the Stomach (Cancer excepted).
- 105. Diarrhœa and Enteritis (under 2 years).
 105a. Diarrhœa and Enteritis, Chronic.
 106. Diarrhœa and Enteritis (over 2 years).
- 107. Parasites. Intestinal.
- Hernias and Intestinal Obstructions. 108.
- 109. Other Affections of the Intestines 109a. Diseases of the Anus and Fecal Fistulas. 110.
- Icterns, Grave. Hydatid Tumors of the Liver. 111.
- 112. Cirrhosis of the Liver.
- 113 Biliary Calculi.
- 114. 115.
- Other Affections of the Liver.
 Affections of the Spleen.
 Peritonitis, Simple (Puerperal excepted).
 Other Affections of the Digestive Appar-116.
- atus (Cancer and Tubercle excepted). 118. Appendicitis and Abscess of the Iliac Fossa.

VI.

Diseases of the Genito-Urinary Apparatus and Its Adnexa.

- 119. Nephritis, Acute. 120.
- Bright's Disease.
- 121. Other Diseases of the Kidneys and their Adnexa
- 122.
- 123.
- Calculi of the Urinary Tract. Diseases of the Bladder. Diseases of the Urethra, Urinary Abscess, 124. etc.
- 125. Diseases of the Prostate. 126. Non-venereal Diseases of the Male Genital Organs.
 - Metritis
- 127. 128 Hemorrhage, Uterine. Non-puerperal.
- 129
- Tumor, Uterine, Non-cancerous, Other Diseases of the Uterus. 130.
- Cysts and Other Tumors of the Ovary 131 Other Diseases of the Female Genital 132 Organs.
- Diseases of the Breast, Non-puerperal (Cancer excepted).

VII.

Puerperal State.

- Accidents of Pregnancy.
 Normal Labor.
- 135.
- Hemorrhage, Puerperal. Other Accidents of Labor. 136.
- 137.
- Septicæmia, Puerperal. Albuminuria and Puerperal Eclampsia. 138. 139.
- Phlegmasia Alba Dolens, Puerpera Other Puerperal Accidents—Su 140. - Sudden Death
- 141. Puerperal Diseases of the Breast.

VIII.

Diseases of the Skin and Cellular Tissue.

- Gangrene.
- 143. Furuncle (Carbuncle).

144. Phlegmon, Warm Abscess.145. Tinea Favus.145a. Tinea Tonsurans, Tricophyton.

145b. Pelades.

145c. Itch.

145d, Other Diseases of the Skin and Its Adnexa.

IX.

Diseases of the Organs of Locomotion.

146. Affections of the Bones (Non-tuberculous).

137 Arthritis and Other Affections of the Articulations (Tubercle and Rhenmatism excepted).

148 Amputation

Other Affections of the Organs of Loco-149. motion.

X.

Malformations.

150. Malformations, Congenital (Still-births excepted).

XI.

Early Infancy.

150a. New-born and Nurslingsout of Hospitals.

without being sick. Congenital Deblity, Icterus and Scler-151. ema.

152. Other Diseases appertaining to Infancy.

153. Lack of Care.

XII

Old Age.

154. Sentle Debillty,

XIII.

Affections produced by External Causes.

Suiclde by Polson.

156,

Suicide by Asphyxia Suicide by Hanging or Strangulation. 157. 155 Snielde by Submersion.

159

160.

Suicide by Firearms.
Suicide by Crutting Instruments.
Suicide by Jumping from High Places.
Suicide by Crushing. 1451 160

163. Other Spicides

164. Fractures.

165. Sprains.

165a. Luxations

Other Accidental Traumatisms 166.

167. Burns and Scalds.

168. Burns by Corrosive Substances

169. Insolution. Freezing.

170. 171.

Electrical Disturbances. Accidental Submersion. 172. 173.

Prostration.

173a. Inanition.

Absorption of Deleterious Gases (Suleide 174.

excepted). Other Acute Poisonings. Other External Violence. 175.

XIV.

Ill-defined Diseases.

177. 178.

Dropsy. Sudden Death,

179. Non-specified or Ill-defined Causes of Death.

NOMENCLATURE DESIGNED FOR STATISTICS OF DEATH.

DETAILED NOMENCLATURE.

I.

General Diseases.

- Typhold Fever (abdominal typhus). Typhus, exanthematic.
- 2.
- 3.
- Fever, recurrent. Fever, Intermittent, and Malurial Cach-4. exla.
- 4a. Malarini Cachexia.
- Variola.
- Measles

- Scarlatinu. Whooping Cough. Diphtheria and Croup.
- 9a. Diphtherla.

- 10
- Grippe. Miliary Fever 11
- Cholera, Aslatic. Cholera, nostras. 12.
- 13. 1.4. Dysentery.
- 14n. Dysentery, epidemic.
- Pest (Plague) 15.
- Yellow Fever. 16.
- 17. Leprosy 18.
- 19.
- Erysipelas. Other Epidemic Affections. Purulent Infection and Septieæmia. 20.
- 21. Glanders and Farey. Malignant Pustule and Charbon (An-
- thrax). 23. Rables.
- Actinomycosis, Trichlnosis, etc. 24.

Pellagra.

26. 27. 28.

Tubercle of Larynx.
Tubercle of Lungs.
Tubercle of Meninges.
Tubercle, Abdominal.
Pott's Disease. 29. 30.

31.

Abscess, Cold and by Congestion. White Tumors (White Swellings). 32.

33.

Tubercle of Other Organs. Generalized Tubercle. 34.

35. Scrofula.

36

Syphilis. Blennorrhagia of the Adult. 37.

Gonococcic Infections of Children. Cancer and Other Malignant Tumors of 38 39

the Buccal Cavity. Cancer and Other Malignant Tumors of

the Stomach and Liver. Cancer and Other Malignant Tumors of the Peritoneum, Intestines, and Rectum.

42. Cancer and Other Malignant Tumors of the Female Genitals.

Cancer and Other Malignant Tumors of the Breast.

Cancer and Other Malignant Tumors of the Skin.

Cancer and Other Malignant Tumors of Other Organs and Organs not specified.
Other Tumors (Tumors of the Female

46. Genitals excepted)

Rheumatism, Acute, Articluar. Rheumatism, Chronic, and Gout. 47. 48.

49. Scorbutus.

Diabetes 50.

51. Goitre, Exopthalmic. Addison's Disease. 52.

53. Leukæmia. Anæmia, Chlorosis.

54. 55. Other General Diseases.

56. Alcoholism, Acute and Chronic.

57. Saturnism. 58. Other Professional Intoxications.

Other Chronic Poisonings.

11.

Diseases of the Nervous System and Organs of Special Sense.

Encephalitis

61. Meningitis, Simple. 61a. Meningitis, Epidemic Cerebro-spinal. 62. Locomotor Ataxia.

Other Diseases of the Spinal Cord. Cerebral Congestion and Hemorrhage. 63.

64. Cerebral Sottening. 65.

Paralysis Without Specific Cause. Paralysis, General. 66.

68. Other Forms of Mental Alienation. 69. Epilepsy

70. Eclampsia (non-puerperal). Convulsions of Children.

71. Tetanus. 72.

73. Chores.

74b. Other Diseases of the Nervous System.

Diseases of the Eye and its Adnexa. Diseases of the Ear.

111.

Diseases of the Circulatory Apparatus.

Pericarditis. 77. 78.

Endocarditis, Acute.

79. Organic Diseases of the Heart.

Angina Pectoris.

Affections of the Arteries (Atheroma, Aneurism, etc.)

82.

Embolus and Thrombosis. Affections of the Veins (Varices, Hem-83. orrhoids, Phlebitis).
A ffections of the Lymphatic System

84. (Lymphangitis, etc.)

Hemorrhages.

86. Other Affections of the Circulatory System.

IV.

Diseases of the Respiratory System.

Diseases of the Nasal Fossæ. 87.

88. Affections of the Larynx. Affections of the Thyroid Body. 89.

90

Bronchitis, Acute. Bronchitis, Chronic. Broncho-Pneumonia. 91. 92

93 Preumonia

94. Pleurisy. 95. Pulmonary Congestion and Apoplexy.

96. Gangrene of the Lung. 97. Asthma.

Pulmonary Emphysema.

Other Diseases of the Respiratory Ap-99. paratus (Phthisis excepted).

٧.

Diseases of the Digestive Apparatus.

Affections of the Mouth and its Ad-100. nexa.

101. Affections of the Pharynx. Affections of the Œsophagus.

102. 103. Ulcer of the Stomach.

Other Affections of the Stomach (Can-104. cer excepted)

Diarrhœa and Enteritis (under 2 years). Diarrhœa and Enteritis, Chronic. Diarrhœa and Enteritis (over 2 years). Intestinal Parasites. 105.

105a.

106. 107.

108.

Hernias: Intestinal Obstructions. Other Affections of the Intestines. 109. Icterus Gravis. 110.

111.

Tumors, Hydatid of the Liver. Cirrhosis of the Liver. 112.

113. Biliary Calculi. 114. Other Affections of the Liver. Affections of the Spleen.

115. Peritonitis, Simple (Puerperal excepted). Other Affections of the Digestive Apparatus (Cancer and Tubercle ex-116. 117.

cepted) 118. Appendicitis and Abscess of the Iliac Fossa.

VI.

Diseases of the Genito-Urinary Apparatus and Its Adnexa.

119. Nephritis, Acute. Bright's Disease. 120.

121

Other Diseases of the Kidneys and their Adnexa. 122.

Calculi of the Urinary Tract.

123. Diseases of the Bladder

124. Diseases of the Urethra, Urinary Abscess, etc.

125.

Diseases of the Prostate. Non-venereal Diseases of the Male Gen-126. ital Organs.

127. Metritis

Hemorrhage, Uterine (non-puerperal). Tumor, Uterine (non-cancerous). Other Diseases of the Uterus. 128.

129. 130.

131. Cysts and Other Tumors of the Ovary.

- 132. Other Diseases of the Female Genital Organs.
- 199 Non-puerperal Diseases of the Breast (Cancer excepted).

VII.

The Puerperal State.

- 134.
- Accidents of Pregnancy. Hemorrhage, Puerperal. Other Accidents of Labor. 135
- 136.
- 137. Septiciemia, Puerperal. Albuminuria and Puerperal Eclampsia. 138.
- 139. Phlegmasia Alba Dolens,
- Other Puerperal Accidents Sudden
- 140. Death.

VIII.

Diseases of the Skin and Cellular Tissue.

- Gangrene.
- Furuncle (Carbuncle). Abscess, Warm. 143.
- 145d. Other Diseases of the Skin and its Ad-

IX.

Diseases of the Organs of Locomotion.

- 146. Affections of the Bones (non-tubercu-
- Arthritis and Other Affections of the Joints (Tubercle and Rheumatism excepted).
- 148. Amputation.
- Other Affections of the Organs of Loco-motion. 149.

X.

Malformations.

150. Malformations, Congenital (Still-births excepted),

X1.

Early Infancy.

- 151. Congenital Icterus, Debility and Scler-
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APPENDIX B.

THE LAWS OF RHODE ISLAND

(As amended February 1, 1896)

IN RELATION TO THE REGISTRATION OF

BIRTHS, MARRIAGES, AND DEATHS.

AND OF DIVORCE.

GENERAL LAWS, CHAPTER 100.

OF THE REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS.

SECTION 1. The town clerks of the several towns, or any person whom the board of aldermen of any city, or the town council of any town, may appoint for that purpose, shall obtain, chronologically record and index, as required by the forms prescribed by section three of this chapter, all information concerning births, marriages, and deaths occurring among the inhabitants of their respective towns; and on or before the first Monday in March, annually, shall make duly certified returns thereof to the secretary of the state board of health for the year ending on the thirty-first day of December next preceding, accompanying the same with a list of the persons required by law to make returns to them who have neglected to do so, and with such remarks relating to the object of this chapter as they may deem important to communicate.

SEC. 2. The secretary of the state board of health shall receive the returns made in pursuance of the preceding section, and annually make a general abstract and report thereof, in form as prescribed by section three of this chapter, and publish not exceeding one thousand copies thereof; and for preparing, tabulating, and publishing said annual report such sum as may be provided by law shall be paid to the state registrar. Said returns, after such report is prepared, shall be deposited in the office of the secretary of state, who shall cause the same to be arranged, full alphabetical indices of all the names to be made, and the whole to be bound in volumes of convenient size and carefully preserved in his office.

- SEC. 3. The blank forms required to carry out the provisions of this chapter shall, on application, be furnished by the secretary of the state board of health to clergymen, physicians, undertakers, town clerks, clerks of meetings of the Society of Friends, and other persons requiring them. substantially as follows: The record of a birth shall state the date and place of birth, name of the child if it has any, the sex and color of the child, whether born alive or still-born, the name and surname, color, residence, and birthplace of the parents, and the occupation of the father, and the time of recording, so far as the same can be ascertained. The record of a marriage shall state the date of the marriage, place, name, residence, and official station of the person by whom married, names and surnames of the parties, age, color, occupation, and residence of each, condition, that is, whether single or widowed, what marriage, that is, whether first, second, third, or other marriage, the occupation, birthplace, and name of their parents, and the time of recording, so far as the same can be ascertained. The record of deaths shall state the date of the death, name and surname of deceased, the sex, color, and condition, whether single or married, age, occupation, place of death, place of birth, names and birthplace of parents, disease or cause of death, and the time of recording, so far as can be ascertained.
- SEC. 4. Every meeting of the Society of Friends, clergymen, and all others authorized to join persons in marriage, shall make a faithful record of every such rite performed by them, in manner and form aforesaid, and return the same for the last preceding month, on or before the second Monday of every month, to the town clerk of the town in which such rite shall have been performed; and no marriage shall be solemnized until the parties shall have signed and delivered to the person about to solemnize it, or to a clerk of a meeting of the Society of Friends, a certificate containing the information required for the record of a marriage, as prescribed by this chapter.
- SEC. 5. The town clerk of every town shall annually, in the month of January, collect the information required by this chapter, in relation to all children born in the town during the year ending on the thirty-first day of December next preceding.
- SEC. 6. Physicians and midwives shall, on or before the fifth day of each month, report to the clerk of each city or town a correct list of all children born therein during the month next preceding, at whose birth they were present, stating the date and place of each birth, the name of the child if it has any, the sex and color of the child, the name, place of birth and residence of the parents, and the occupation of the father. The fee of the physician or midwife shall be twenty-five cents for each birth so reported, and shall be paid by the city or town in which the report is made.
- SEC. 7. Whenever any person shall die, or any still-born child shall be brought forth in this state, the physician attending at such bringing forth

or last sickness, if any physician so attended, shall, within forty-eight hours after such death or bringing forth, leave with the family, if any, or person having the care of the deceased, or the person bringing forth such still-born child, or give to the undertaker or person who conducts the funeral, a certificate stating, in case of a death, the name of the deceased, the date of the death, and the disease or cause of the death; and in case of the bringing forth of a still-born child, the date and the cause of such child being brought forth still-born: Procided, however, that if the physician last in attendance shall not have knowledge of such death, or is otherwise reasonably prevented from leaving with the family or giving the undertaker such certificate within the time hereinbefore specified, or hefore the funeral or disposal of the remains of the deceased, he shall, within five days after having knowledge of such death by notification or otherwise, send to the town or city clerk or registrar of the town or city in which such death occurred a certificate, stating the name, date, and disease or cause of death of such decedent.

SEC. 8. Every town council may appoint a sufficient number of persons to act as undertakers, removable at the pleasure of such council.

Sec. 9. No undertaker or other person shall conduct a funeral, or bury or deposit in a tomb, or remove from this state or otherwise dispose of the remains of any deceased person or still-born child, unless he shall first obtain the physician's certificate required by section seven of this chapter. if a physician was in attendance upon such person who has deceased or the person bringing forth such still-born child, and shall return the same. together with his own certificate of the information required by section three of this chapter, to the town elerk of the town where such death or bringing forth took place: Provided, however, that in such towns as allow the burial or removal of bodies of deceased persons without a permit from the town clerk, and if the undertaker or other person who has charge of the disposal of the remains of the deceased person is unable to obtain the said physician's certificate, after reasonable attempts therefor, before the burial or removal of the said remains, then the said undertaker or other person shall make his return as required by section three of this chapter, including the cause of death and the name of the physician last in attendance upon the deceased, immediately to the town or city clerk or registrar of the town or city in which the death occurred. He shall, also, within two days thereafter, notify the physician last in attendance upon the deceased person of the name and date of death of the same.

SEC. 10. Clergymen of all denominations who officiate at the funerals of decedents when no undertaker is in attendance shall, when requested by the state registrar, or the town or city clerk or registrar of the town or city in which such deaths occurred, make returns of such deaths in the same manner and with the same compensation as undertakers.

- SEC. 11. Any town may make ordinances more effectually to attain the objects herein contemplated.
- SEC. 12. The town clerks, or persons appointed as aforesaid, shall receive for each record of a death made and returned as required by law, and for each record of a marriage made and returned as required by law, twenty cents, to be paid to them out of their respective town treasuries: Provided, that the yearly compensation to be paid out of the town treasury as aforesaid, to any one town clerk or person appointed as aforesaid, who shall perform the duties prescribed by this chapter, shall not be less than five dollars. Undertakers and others making returns of deaths, as required by sections seven and nine of this chapter, shall receive for each full report of a death made to the town clerk, five cents in the cities of Providence and Newport, and ten cents in the other towns of the state.
- SEC. 13. Every clergyman, physician, midwife, undertaker, town clerk, clerk of any meeting of the Society of Friends, or other person who shall willfully or unreasonably neglect or refuse to perform any of the duties imposed on or required of him by this chapter, shall be fined not exceeding twenty dollars nor less than two dollars for each offence, one-half thereof to the use of the town in which the offence shall occur, and one-half thereof to the use of the person who shall complain of the same.
- SEC. 14. Every clergyman, physician, coroner, undertaker, medical examiner, or clerk of any meeting of the Society of Friends, shall cause his name, residence, and post-office address to be recorded in the town clerk's office of the town where he resides.
- SEC. 15. No letters of administration or letters testamentary shall be granted by any court of probate upon the estate of any person, until the death of such person, or the facts from which the same is presumed, shall be duly certified, as near as may be, to the town clerk, in order that the same may be duly registered according to the provisions of this chapter.
- SEC. 16. The town and city clerks, and registrars of the several towns and cities, shall have the custody of all records of births, deaths, and marriages of their respective towns, whether made under the statutes now in force or any former statute, and a certificate signed by them, certifying that any written or printed statement of any marriage, birth, or death is a true copy of the record in their custody, shall be admitted as evidence of such marriage, birth, or death.
- SEC. 17. Births, marriages, and deaths of non-residents shall be distinguished from those of residents in the returns by being arranged separately.
- SEC. 18. The secretary of the state board of health may from time to time vary the forms of returns, and require such additional information as he may consider necessary to accomplish the object of this chapter.
- Sec. 19. The town clerks or other officers appointed under this chapter to collect, record, and return the births in the several cities and towns, shall receive fees therefor as follows: For making record and return of

these facts as required by law, twenty cents for each entry and return; to be paid by the city or town in which the birth is recorded.

SEC. 20. The clerk or registrar of each town and city shall, on the first day of each and every month, make a certified copy of all births, marriages, and deaths recorded in the books of said town or city during the previous month, whenever the parents of the child born, or the bride or the groom, or the deceased person, were resident in any other town or city in this state, or in any other state, at time of said birth, marriage, or death; and shall transmit such certified copies to the clerk or registrar of the town, city, or state in which such parents of the child born, the bride or the groom, or the deceased, were resident at the time of said birth, marriage, or death, stating, in case of a birth, the name of the street and number of the house, if any, where such parents resided, the place of birth of such parents, and the maiden name of the mother, whenever the same can be ascertained; and the clerk or registrar so receiving such certified copies shall record the same in the books kept for recording births, marriages, and deaths. Such certified copies shall be made upon blanks to be furnished for that purpose by the secretary of the state board of health.

SEC. 21. The town clerks of the several towns, or other persons appointed under this chapter to collect the births in the several towns, shall annually in the month of January collect the facts concerning the births within their respective towns, required by this chapter, and shall, so far as practicable, at the same time collect the names of all persons liable to be enrolled in the militia, as required by title thirty-four, and the census of all persons between the ages of five and fifteen years inclusive, as provided by chapter fifty-four, and shall receive therefor such compensation as the town council or the board of aldermen of their respective cities shall determine: *Provided*, that the city of Providence shall be exempt from so much of the provisions of this section as relates to the collection of the statistics of births.

SEC. 22. Blanks for the foregoing purposes shall be furnished, on application therefor, on or before the first day of December in the year preceding, by the state board of health for the collection of births, by the adjutant-general for the taking of the enrolled militia, and by the commissioner of public schools for the census aforesaid.

Sec. 23. The person or persons who shall discharge the duties required by section twenty-one of this chapter, if other than the town clerk, shall make full return thereof to the town clerk of his or their town, on or before the tenth day of February next following.

SEC. 24. The returns required to be made by the clerks of the appellate division of the supreme court, in relation to divorces, to the secretary of the state board of health, or a prepared abstract thereof, shall be published in the annual report of the births, marriages, and deaths in the state.

SYNOPSIS OF THE LAW OF MARRIAGE.

GENERAL LAWS, CHAPTER 191.

Sections 1, 2, and 3 show what kindred persons cannot marry, and declare marriages within prohibited degrees null and void.

Section 4 makes an exception in favor of Jews, within the degrees of affinity or consanguinity allowed by their religion.

SECTION 5 declares the marriage of persons having a husband or wife living, and of idiots and lunatics, absolutely void.

Sec. 6. Any minister or elder of any religious denomination who shall be *domiciled* in the state, and shall have *registered* with the town clerk and have received a *license*, may join persons in marriage in this state.

Section 7 designates who shall be considered as belonging to a religious denomination within the meaning of the preceding section.

SEC. 8. Wardens in the town of New Shoreham may join persons in marriage in said town.

Section 9 designates who may join persons in marriage when solemnized among Quakers, or among persons professing the Jewish religion.

SEC. 10. Persons intending to be joined together in marriage in this state must first obtain a license from the town or city clerk of the town in which they respectively reside, or, if not residents of the state, from the clerk of the town or city in which the marriage is to be solemnized. The license shall contain the information called for so far as the same is known to such persons, each of whom shall subscribe to the truth of the same in the presence of the clerk or an assistant clerk of that town or city in which they respectively reside. For issuing such license the town or city clerk shall be entitled to a fee of one dollar: *Provided*, that when the persons intending to be joined in marriage live in different towns or cities in this state the fee shall be fifty cents in each town or city. Such license shall be presented to the minister, elder, justice, warden, or other person who performs the marriage ceremony.

Section 11 provides for the control of marriages of minors, and requires the written consent of the parent or guardian before the information provided for in section ten can be given. Persons over eighteen years of age, however, who may have no parent or guardian, may make oath relative to that fact to the city or town clerk, and may then give the required information called for in the application.

Section 12 requires that *each* of the persons married must present to the officiating clergyman a certified copy, as provided in section ten. These

must also be signed by the respective parties to the marriage in the presence of the clergyman. This is intended to identify the parties as being the same who appeared for the certificate from the town clerk.

Section 13 requires that the officiating clergyman shall endorse the certificate stating that he has joined the parties in marriage, and also that two witnesses of the marriage shall append their signatures. It also provides that the minister shall make a return of the certificate to the town clerk on or before the second Monday of the month succeeding the date of the marriage.

Section 14 provides for the care and preservation of the records.

SECTION 15 provides for the work of registration in the city of Providence to be done by the city registrar.

SECTION 16 provides for the recording of the returned certificates in the office of the town clerk, and the final lodgment of the certificates with the secretary of state. These are there to be properly indexed, and open to inspection only in the presence of some one connected with the office of the secretary of state.

SECTION 17 provides that two witnesses shall be present at the marriage ceremony.

Section 18 provides that lawful objection to a marriage shall be made in writing, and the officiating clergyman shall not proceed with the marriage until the objection is removed.

Section 19 provides for a penalty of six months imprisonment, or a fine of one thousand dollars, for joining persons in marriage without first having been presented with the certified copies required in section ten, or without having first returned any lawful objection to the marriage.

Section 20 provides for a penalty a fine of not exceeding one hundred dollars, for failure to perform any of the duties devolving upon the officiating officer under this chapter.

Section 21 provides for a fine for joining persons in marriage who have a husband or wife living.

SECTION 22 provides that no marriage shall be deemed or adjudged to be void by any failure on the part of the officiating officers to comply with the law, if the marriage is in other respects lawful and has been performed with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

SEC, 23. Every person who shall solemnize a marriage without being legally authorized thereto shall be fined five hundred dollars.

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GENERAL LAWS. CHAPTER 195.

OF DIVORCE.

Section 1. Divorces from the bond of marriage shall be decreed in case of any marriage originally void or voidable by law, and in case either party is for crime deemed to be or treated as if civilly dead, or from absence or other circumstances may be presumed to be actually dead.

SEC. 2. Divorces shall be decreed for impotency, adultery, extreme cruelty, willful desertion for five years of either of the parties, or for such desertion for a shorter period of time in the discretion of the court, for continued drunkenness, for the habitual, excessive, and intemperate use of opium, morphine, or chloral, for neglect or refusal on the part of the husband, being of sufficient ability, to provide necessaries for the subsistence of his wife, and for any other gross misbehavior and wickedness in either of the parties repugnant to and in violation of the marriage covenant.

SEC. 3. Whenever in the trial of any petition for divorce from the bond of marriage it shall be alleged in the petition that the parties have lived separate and apart from each other for the space of at least ten years, the court may in its discretion enter a decree divorcing the parties from the bond of marriage, and may make provisions for alimony.

SEC. 4. Whenever it shall appear that the absence, adultery, cruelty, desertion, or other cause of complaint as aforesaid was committed or occasioned by the collusion of the parties, and done and contrived with an intention to procure a divorce, in such case no divorce shall be decreed.

SEC. 5. Whenever a divorce is granted for fault on the part of the husband, the wife shall have dower as if the husband were dead; but such dower shall be claimed on proceedings begun within six months after the absolute decree, and, if not claimed within said period, or if claim be made for alimony within said period, then dower shall be deemed to be waived and released, and the only relief of the wife shall be a claim for alimony chargeable upon the estate of the husband, or some specific portion thereof as the court may decree: *Provided*, that in case of such divorce between parties married before the Digest of eighteen hundred forty-four went into operation, the wife shall be re-instated in all of her real estate, and have restored to her all of her personal estate not, in either case, disposed of at the date of the filing of the petition for said divorce.

Sec. 6. Whenever a divorce is granted for fault on the part of the wife, the husband, if he be entitled to curtesy-initiate, shall have a life estate in all the lands of the wife as if the wife were dead, but subject to such

allowance to the wife, to be charged on such life estate, as the court in the peculiar circumstances of the case may deem just and proper.

- SEC. 7. Otherwise than as provided in the two preceding sections neither husband or wife, on divorce being granted, shall have any right in the estate of the other.
- SEC. 8. Divorces from bed, board, and further cohabitation, until the parties be reconciled, may be granted for any of the causes for which by law a divorce from the bond of marriage may be decreed, and for such other causes as may seem to require the same. In case of such divorce the court may assign to the petitioner a separate maintenance out of the estate or property of the husband or wife, as the case may be, in such manner and of such amount as it may think necessary or proper.
- SEC. 9. Every petition shall be signed by the petitioner, if of sound mind and of legal age to consent to marriage; otherwise, upon application to the court, and after notice to the party in whose name the petition shall be filed, the court may allow such petition to be signed by a guardian or next friend.
- SEC. 10. No petition for divorce shall be granted unless the petitioner shall at the time of preferring such petition be a domiciled inhabitant of this state, and have resided therein for the period of one year next before the preferring of such petition.
- SEC. 11. All such petitions shall be filed, heard, and tried in Providence, unless the petitioner shall reside in the county of Newport or in the county of Washington, in which case such petition shall be filed, heard, and tried in Newport or South Kingstown respectively.
- SEC. 12. The court may by general rule determine the return-day of petitions for divorce and prescribe the notice to be given, within or without the state, on all such petitions, and may issue such process as may be necessary to carry into effect all powers conferred upon it in relation to the same; and said court may also, by general rule, fix the times, during its session, when all petitions for divorce shall be heard, as they may be filed in Providence, Newport, or South Kingstown, respectively. Such general rules shall, however, be subject to such special orders as the court may make in special cases. And, until general rules are made, special order in each case shall be made.
- SEC. 13. Whenever any petition for divorce shall have been filed or be pending in the appellate division of the supreme court, and said court shall be of the opinion that sufficient notice of the pendency of said petition shall not, from any cause, have been given to the adverse party, said court may order notice or further notice to the adverse party to be given in such manner as the court may prescribe.
- SEC. 14. The said court may regulate the custody and provide for the education, maintenance, and support of the children of all persons by them divorced or petitioning for a divorce, and all persons to whom a separate

maintenance may be granted or who may petition for the same; may in its discretion make such allowance to the wife, out of the estate of the husband, for the purpose of enabling her to prosecute or defend against any such petition for divorce or separate maintenance, in case she has no property of her own available for such purpose, as they may think reasonable and proper: and may make all necessary orders and decrees concerning the same, and the same may at any time alter, amend, and annul for sufficient cause, after notice to the parties interested therein.

- Sec. 15. Any woman to whom a divorce from the bond of marriage is decreed may be authorized by such decree to change her name, subject to the same rights and liabilities as if her name had not been changed.
- Sec. 16. After the filing and during the pendency of any petition for divorce the said court may make such interlocutory decrees and grant such temporary injunctions as may be necessary until a hearing can be had before said court.

GENERAL LAWS. CHAPTER 225.

OF DIVORCES.

Section 9. The clerks of the appellate division shall make returns to the secretary of the state board of health, on or before the first day of March in each and every year, for the year ending on the thirty-first day of December preceding, of all the applications for divorce, showing the number of applications, the number thereof continued, the number granted, and the causes for which the same are granted, but without the names of the parties, in accordance with the blanks which shall be furnished them by the secretary of state.

GENERAL LAWS. CHAPTER 287.

OF MEDICAL EXAMINERS AND CORONERS.

Section 1. The governor shall appoint, in each county, able and discreet men, learned in the science of medicine, to be medical examiners in such county.

SEC. 2. The number of medical examiners appointed as provided in the preceding section shall be as follows:

For the county of Washington five examiners, one in each of the five following districts, viz.: District one, composed of the town of Westerly; district two, of the town of South Kingstown; district three, of the town

of Hopkinton; district four, of the towns of North Kingstown and Exeter; district five, of the towns of Charlestown and Richmond.

For the county of Kent two examiners, one in each of the two following districts, viz.: District one, composed of the towns of West Greenwich and Coventry; district two, of the towns of East Greenwich and Warwick.

For the county of Providence eleven examiners, one in each of the first nine following districts, and in district ten two examiners, viz.: District one composed of the towns of Scituate and Foster; district two, of the towns of Cranston and Johnston; district three, of the town of Glocester; district four, of the towns of Smithfield and North Providence; district five, of the towns of Burrillville and North Smithfield; district six, of the city of Woonsocket; district seven, of the town of Cumberland; district eight, of the cities of Pawtucket and Central Falls and the town of Lincoln; district nine, of the town of East Providence; district ten, of the city of Providence.

For the county of Bristol, two examiners, one in each of the following districts, viz.: District one, composed of the towns of Barrington and Warren; and district two, of the town of Bristol.

*The number of medical examiners for the county of Newport shall be five, one in each of the first three districts and two in district four; and said districts shall be composed as follows: District one, of the towns of Tiverton and Little Compton; district two, the town of Portsmouth; district three, the town of New Shoreham; district four, the city of Newport and the towns of Middletown and Jamestown.

- SEC. 3. If either of the medical examiners shall, at any time, from any cause, be unable to perform the duties of his said office, or shall be deemed by the attorney-general for any cause disqualified therefor, a medical examiner from an adjoining district may be called upon to perform them.
- SEC. 4. Every medical examiner shall hold his office for the term of six years, and until another is appointed and qualified to act in his place, unless sooner removed by the appointment of some other person to fill his place.
- SEC. 5. Every medical examiner shall, within thirty days after his appointment, and before entering upon the duties of his office, give bond with surety to, and to the satisfaction of, the general treasurer in the sum of one thousand dollars for the faithful performance of his duties.
- Sec. 6. If the condition of any such bond be broken, to the injury of any person, actions may be brought upon such bond as upon the official bonds of sheriffs.
- Sec. 7. Medical examiners shall make examinations as hereinafter provided, upon bodies of such persons only as are supposed to have come to their death by violence: *Provided*, that in case any prisoner in the state

^{*} As amended April 16, 1896,

prison or in any county jail dies while so imprisoned, it shall be the duty of the medical examiner of the district in which such prison or county jail is situated, upon being notified of the death of such prisoner, to make at once an examination upon the body of such deceased prisoner.

- SEC. 8. When a medical examiner has notice that there has been found, or is lying, within his district the body of a person who is supposed to have come to his death by violence, he shall forthwith repair to the place where such body lies and take charge of the same; and if, on view thereof and personal inquiry into the cause and manner of the death, he deems a further examination necessary, he shall, upon being thereto authorized in writing by the attorney-general, or by the mayor of the city or president of the town council of the town where such body lies, make an autopsy in the presence of two or more discreet persons as witnesses, and shall then and there carefully reduce, or cause to be reduced, to writing every fact and circumstance tending to show the condition of the body and the cause and manner of death, together with the names and addresses of said witnesses, which record he shall subscribe. Before making such autopsy he shall call the attention of the witnesses to the position and appearance of the body.
- SEC. 9. Should the medical examiner deem it advisable to have present a physician as one of the witnesses as aforesaid, such physician shall also subscribe the record made by the medical examiner, and for such service he shall receive a compensation of five dollars.
- Sec. 10. Town councils shall select a suitable person to act as coroner for their respective towns, to hold his office for three years and until another is elected and qualified to act in his place, unless sooner removed by the election of some other person to fill his place.
- Sec. 11. The coroners so elected shall have exclusive jurisdiction as coroners in their respective towns.
- SEC. 12. The coroner shall appoint in writing, under his hand and seal, one or more discreet persons to act as his deputy in case of his absence or inability to act, who shall have all the powers of a coroner, and be subject to like pains and penalties, for malfeasance in office; and the coroner shall file a copy of the appointment in the town clerk's office of his town.
- SEC. 13. The coroner may suspend or discharge a deputy. The suspension or discharge of a deputy shall be in writing, addressed to the deputy; and the coroner shall forthwith file a duplicate thereof in the town clerk's office of his town.
- SEC. 14. Every coroner and deputy coroner shall, before entering upon the duties of his office, take the engagement prescribed in section five of chapter twenty-five.
- Sec. 15. Whenever the coroner has notice that there is in his town any person who has been injured by the criminal act, omission, or carelessness of another, and that said person believes that his death is impend-

ing from such injury, said coroner may take the statement of such person concerning the manner in which, and the person by whom, such injury was inflicted; and the statement so taken shall be reduced to writing and, if practicable, in the presence of the injured person.

SEC. 16. If, upon such view, personal inquiry, or autopsy, the medical examiner is of the opinion that the death was caused by the act or neglect of some person other than the deceased, he shall at once notify the attorney-general, and coroner of the town where the body was found, or in which it lies, and shall file a duly attested copy of the record of his autopsy, or view, with the said coroner and a like copy with the attorney-general; and shall in all cases certify to the officer having the custody of the records of deaths in the town in which the deceased came to his death, the name and residence of the person deceased, if known, or, when the name and residence cannot be ascertained, a description of the deceased, as full as possibly may be, for identification, together with the cause and manner by and in which he came to his death.

SEC. 17. The coroner shall therenpon hold an inquest, which may be private; in which case any or all persons, other than those required to be present by the provisions of this chapter, may be excluded from the place where such inquest is held, and such coroner may also direct the witnesses to be kept separate so that they cannot converse with each other until they have been examined. The attorney-general, or some person designated by him, may attend the inquest and examine all witnesses; and the coroner shall cause the testimony to be reduced to writing and signed by the witnesses. The attorney-general may, if he deem it necessary or expedient, direct an inquest to be held in the case of any easualty from which the death of a person results.

SEC. 18. The coroner may issue summons for witnesses, returnable before him. The persons served with such process shall be allowed the same fees, their attendance may be enforced in the same manner, and they shall be subject to the same penalties, as if served with a summons in behalf of the state in a criminal prosecution pending before a district court.

SEC. 19. The coroner shall, after hearing the testimony, draw up and sign a report, in which he shall find and certify when, where, and by what means the person deceased came to his death; his name, if known, and all material circumstances attending his death; and if it appears that his death resulted wholly or in part from the unlawful act of any other person, he shall further state the name of such person, if known to him, and he shall file such report, and the testimony by him taken, together with a copy of the record of the autopsy or view, in the office of the clerk of the court wherein an indictment for the offence may be found.

SEC. 20. The coroner shall bind such witnesses as he deems necessary, or as the attorney-general may designate, by recognizance in a reasonable sum, with sufficient surety, to personally appear, at such time as the

coroner may designate, at the district court of the district wherein the inquest is held, and not depart therefrom until discharged by said court; and if any such witness shall refuse to recognize as aforesaid, the coroner shall commit such witness to the jail in the same county, there to remain until he shall so recognize or be otherwise discharged according to law.

SEC. 21. If the report of the coroner shall state that the death was caused by the unlawful act or by the gross carelessness of any other person, and by whose act the same was committed, he shall immediately make a complaint thereof against the person accused, in writing and on oath, to the justice or clerk of the district court in the district where the offence was committed, to the intent that the person killing or being in any way criminally instrumental to the death may be apprehended; but nothing herein contained shall be so construed as to prevent complaint being made at any time before the finding of the report. And the coroner shall forthwith, in writing, notify the attorney-general of the complaint aforesaid, that he may appear by himself or some person appointed by him, at the examination, and prosecute the complaint in behalf of the state.

SEC. 22. If a medical examiner reports that a death was not caused by the act or neglect of some person other than the deceased, and the attorney-general is of a contrary opinion, the attorney-general may, notwithstanding such report, direct an inquest to be held in accordance with the provisions of this chapter; at which inquest he, or some other person designated by him, shall examine all the witnesses.

SEC. 23. The medical examiner may, if he deem it necessary, employ a chemist to aid in the examination of the body, or of substances supposed to have caused or contributed to the death; and such chemist shall be entitled to such compensation for his services as the medical examiner certifies to be just and reasonable, the same being audited and allowed in the manner hereinafter provided.

Sec. 24. When a medical examiner views or makes an examination of the dead body of a stranger, he shall cause the body to be decently buried; and if he certifies that he has made careful inquiry, and that to the best of his knowledge and belief the person found dead is a stranger, having no settlement in any town of the state, his fees, with the actual expense of burial, shall be paid from the general treasury. In all other cases the expense of the burial shall be first paid by the town wherein the body is found, and such town may recover the money so paid from the town where such person last had a settlement: *Provided*, however, that the general treasurer, or any town, ultimately paying any such burial expenses, shall have the right to recover such burial expenses from the estate of the deceased person.

Sec. 25. When services are rendered in bringing to land the dead body of a person found in any of the harbors, rivers, or water of the state, the medical examiner may allow such compensation for such services as he

deems reasonable; but this provision shall not entitle any person to compensation for services rendered in searching for a dead body.

SEC. 26. In all cases arising under the provisions of this chapter, the medical examiner shall take charge of any money or other personal property of the deceased, found upon or near the body, and shall deliver the same to the person entitled to its custody or possession; or if not claimed by such person within sixty days, then to an administrator, to be administered upon according to law.

SEC. 27. A medical examiner who fraudulently neglects or refuses to deliver any such property within three days, after demand upon him therefor, shall be imprisoned not exceeding two years or be fined not exceeding five hundred dollars.

SEC. 28. The fees of coroners shall, for the services specified in this chapter, be as follows, namely: For receiving and filing a duly attested copy of the record of an autopsy, fifty cents; for every page of two hundred words of written testimony, thirty cents; for each day's attendance in holding the inquest, five dollars; for the recognizance of witnesses, thirty-five cents; and for drawing up and filing a report in court, five dollars. Said fees having been audited by the state auditor, upon certificate of the attorney-general, shall be paid by the general treasurer.

SEC. 29. Each medical examiner shall receive fees as follows: For a view without an autopsy, four dollars; for a view and an autopsy, thirty dollars; and for travel, at the rate of ten cents a mile to the place of view. He shall also have power, in case of an autopsy, to employ a clerk at an expense not exceeding three dollars per day for each day's actual service.

SEC. 30. Every medical examiner shall return an account of the expenses of each view or autopsy, including his fees, to the state auditor, and shall annex to his return the written authority under which the autopsy was made. The state auditor shall audit such account and certify to the general treasurer what items in such account are deemed just and reasonable, and such items shall be paid by said treasurer to the persons entitled to receive the same.

SEC. 31. Medical examiners shall, in the books provided by the secretary of state, keep a record of all views of bodies found dead, together with their view and autopsy reports, and, on the first of January, April, July, and October, shall forward to the secretary of the state board of health attested copies of such records of views, together with the view reports and conclusions from autopsies. Should the commission of service of a medical examiner expire before the end of a quarter, the said examiner shall at once forward to the said secretary of the state board of health the records and reports of all cases unreported at date of expiration of said service.

SEC. 32. For each and every copy of said records and reports forwarded to the said secretary of the state board of health, medical examiners shall

receive twenty-five cents, which shall be paid by the state upon the voucher of said secretary of the state board of health that such copy of reports and records have been received by him.

SEC. 33. The secretary of the state board of health shall cause the returns received by him for each year, in accordance with this chapter, to be bound together with an index thereto; the state registrar shall prepare or cause to be prepared from the said returns such tabular results as will render them of practical utility, and shall make report thereof annually in connection with the report of births, marriages, and deaths required by chapter one hundred.

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